

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15461	45829	A	15551	1	956	MSSGRRDALARGLGNSGDGAP HLGEHRQLEDVGGVTVTVTWT GRLQAAGCWTRSVSSTAAAGR REPSTRDGAALSTEPDPPELRLG HRGSRAGLTALGHVTRRGSSQ RGGPPEPWEHWLENGTRRTEL VDGVSYESWRRRPCRQLESR LVLENHVATDEDEPALKCQRL EINCQDPSIKSFLYSINQICLRL DSIEAKLQALEATCKSLEEKLD LVTNKQHSPIQVPMVAGSPLRT TQMCNKVR/CAMHWLVCVSCIF TCLPGWRPAAPDQGPAAISLCS LPSSSQGHREPLALGLPSALPPA HRQRLRGSATVPIPP
15462	45830	B	15552	161	925	
15463	45831	A	15553	31	856	GGFLHHASFFVGRGRTLLMYFS LLGATPKPEPEPEQVIKNYTEEL KVPPDEDCHCMEKLSAASGYS DVTDSKAVGPLAVGCLTKCSH AFHLLCLLAMYCNGNKGPEHP NPGKPFTARGFPASATFQTP GPQELVPYTPQITAWDLEGKVT ATTFSLEQPRCVFDGLASTNDT VWLVVAFSNASRGFQNPETLA DIPASPQLLTDGHYMTLPVSPD QLPCDDPMAGSGGAPVLRVGH DHGCHQQPFCNAPLPGPGPYR WVVPTGALGLGLCLG
15464	45832	A	15554	827	1371	GSSAGEASSSLRRLSPSQPISRPL LPAGEKVLVWIEDQTSHNIPL SQQSKT/TLFNSMKAERGKEVT EEKLEARRGWMRFKERSCFPN VKVQGEAANADIEAVACYPEY LAKITDEGGYTEQQIFSVDETA LYWKKMPSTRFLARRKNCHSH PSFSSQHLVQSAAINIKAKSSTS KKIMTP
15465	45833	A	15555	799	906	FLNKLAFALRCGLALNSFLRKI QEPSLG\SKSGSL
15466	45834	A	15556	143	560	

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15467	45835	A	15557	1059	1940	QQMQQEMRRKSKWMAMLGK WETYQNS/TKGHLMKRVYKGI PMNVRAEVWSVLLNIQEIKAK NPRQYRVMKEKGKRSSEHIHQI DLAVSQTLRNHMFDRYGTK QQELFYILLAYS KYNPVVGYCR DLSHIAALFLLYLPEEDTFWAL VQLLASERHSCRVEQLPLGLH AARPGDGHGPGQRHLPCVASLL GAFRTSLLTVPKEPGTDPPEPKS DAFHPPHQQKASHPPRGCPCLPG ATPSGSDSVQLALRNLRVLLPF SCSGSSCPWYPRKEALHPGGLE EQRGLQPLMGLVTG
15468	45836	A	15558	123	448	ALAAAVYP SHSERTGEEAKKIC SVR*LLRSAQEEI/FLRGKNSRT GVL*KLLQRK*RYQRALGLAM LSEWTISPKGPVSTGITK PMLTA SRVTVPRMTMSALLDFIHGA
15469	45837	A	15559	1	6387	
15470	45838	A	15560	52	3218	
15471	45839	A	15561	3602	4015	GSVESPLGQKTPRTSSASPCWPS TNLYRMELELYGPHVTSQVVK STRCAPIRWSAAPSILCEVRVPV TMWTCLPLPATGRLSMW*IWP RQWPCVLTSATQS*LTRCGGGT RAVSLAPQSHL*VCPAQSSWTS IILWT
15472	45840	A	15562	932	1316	RVQDIPAKRGIPQFRPKIGIGQ SYKQHYPARPWNVLAQKV/V FEDQDALLPCLLTD PVLEAGVS LVRVRGRPLMRHTNYSFSPWH GFTIHRAKFIQSQDYQCSALMG GRKVMSISIRLK VQKAVNRA
15473	45841	A	15563	1	263	
15474	45842	A	15564	66	185	
15475	45843	A	15565	1	4217	MRLAEERAALAAENADGEPGA DRRLRLLGT YVAMSLRPAAGA WERCAGSAEAEQLLQAF LGRD AAEGPRPLL VVRPGPRGLAIRP GLEVGPEGLAGAKALFFLR TG PEPPGPD SFRGAVVCGDLPAAP LEHLAALFSEV VLPVLANEKNR LNWPHMICEDVRRHAHSLQCD LSVILEQVKGKTLLPLPAGSEK MEFADSKSETV LDSIDKSVIYAI ESAVIKWSYQVQVVLKRESSQP LLQGENPTPK\VELEF

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15476	45844	A	15566	26	494	RPGCGEWLGNAELWGQECQL HYSPPVSPWENSSGPRFSISKTG SLIPPLLNDICQNQKPQIILSHPA RCLGLLDHFPQQWERRQAQNR AETG*GQRSAQQQTFRQRPLSV SGNCRVPPRATVSRK/PRPAPAY ALSLKSPRRRPPRTGPAPPGLVP
15477	45845	A	15567	1	1242	
15478	45846	A	15568	114	1219	VDLPPGAPVRQSGSHGSVLRDH KTEGEARVLP LHQ RVGKAGGR GATPGPHVHEDPVTICCGHSFC RP/C/ICLSWEEA QSPANCRACR EPSQKKDFKTNILLKNLVTIAR KASLWQFLSSEKQICGTHRQTK KMFCMDKSL LCLCSNSQEH GAHKHYPIEEAAEEHREKLLKQ MRILWKKIQENQRDLYEERT AFLWRKRTLRLKGMTSGAQGT SQKVALGLLQQPLCHTVRAQS NSARVHKQRGGDAVSSGAGIP DPKAQRFPATLRSQAFTCTAGR RWGSGETVLHPLQRAGVRGAV AELHRQLLLSSSAAGFEECEGL CTSGPHITQGPDHQELYLSHEG VWTLFTCTGDRWKVLSGVPCP

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15479	45847	A	15569	1	2694	MRMAATAWAGLQGPPPLTLCP AVRTGLYCRDQAHAEATDVV LLAPFCQPKTRSHGTCPPTERDP RGEGSTIEYPGRVDGIQGWGTR ALTGWTDRLLCQACQTLPPR HWFLPGARGWLGGSPCAHGQE SLPSQPSILLRVESVKSRMLRR RAQEEDSTVLIDVSPPEAEKRG SYGSTAHASEPGGQQAACRA GSPAKPRIADFVLVWEEDLKLD RQQDSAARDRTDMHRTWRETF LDNLRAAGLCVDQQDVQDGN TTVHYALLSASWAVLCYYAED LRLKLPLQ\DYPTRPPTGRPAC/ CAWLGPVNVLEVPDVPPEYY SCRFRVKNLPRFLGSDNQDTFF TSTKRHQILFEILAKTPYGHEKK NLLGIHQLLAEGVLSAFLHD GPFKTPPEGPAAPRLNQRQVLF QHWARWGKWNKYQPLDHVR RYFGEKVALYFAWLGFYTGWL LPAAVVGTLVFLVGCFLVFSDI PTQELCGSKDSFEMCPLCLDCP FWLLSSACALAQVREEAGRLF DHGGTVFFSLFMALWAVLLE YWKRSATLAYRWDCSDYED TEERPRPQFAASAPMTAPNPITG EDEPYFPERSRARRMLAGSVVI VVMVAVVVMCLVSIILYRAIM AIVVSRSGNTLLAAWASRIASL TGSVVNLVFILILSKIYVSLAHV LTRWEMHRTQTKFEDAFTLKV
15480	45848	A	15570	1	924	MISQFIPENYFSGKSSATSGWA RAQRDFRVGAGSARPALLSGRL APPALGSERLSTRASSCGGLPR ATPRGRAPPPATRHVPSTAQR LRSAAARQRLAGSSARGDAL GKASWAPESVLEVLARAVRQE KEIKGILLGKEEVKLSLFAGDMI VYLENPIISAQNLLKLMSNFSK VSGYKISVQKSHAFVYTNNRQS ESQIMSELPFTVATKRIKYLGIQ LTRDVKDLFKENYKPLLNEIQE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTFFTE LEKTK\FIWNQK\RAHIAKTIL
15481	45849	A	15571	1	825	
15482	45850	A	15572	1	1488	

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15483	45851	A	15573	1	1476	MPIKVDWIKKSRTHTPRDTMSP KRGINISIQEYRNTPDASILSEL LERDTNTQVYTYEQEHTNKN GHQAIDKQNKGHIRRESDRGEY YPLDCRPTGSLTDKGWGMLLC GMMTAGKPTPILTFLLDVGLPG GTAINKSSVIRVRNREEGNVEK WGERQVDQRDAVMRVRCGIR NNVEAGLKYGPGTMKVSLSVF YTTQQCRRYLSVLCFAGLARAS VPFNEDFQMSLDEKLFSNLHPL GSSSSPPKSLHLCPLLEHQFTML GFSDLGAQLASPSGSHTRAAGV AACQPAPTLTWLSPWVARGLG TLEQGVVLVGEARAAQEPMEW VGGSCMVGCRSRALPRGKAAK AWREIQRSAGAGGAPVSPWSG GAPSRACPPSASSVRFLCAARR LACNTYSPVLYCVRNWWILGL TDFNNEATDPRDPFLANVPGQL AAVAIGTCDGNVYSAGDRDYR FALESILKACTLALALEEVGPPA VQDKIGADPTGLPF
15484	45852	A	15574	140	448	GFLGACAGREFKMAPP*SSLG *KLSVSPCPGLLISAEGPEAVFSI V*NARVRGFILEVSETKNPPIPD TISTKHASLMSDSYREKKLVPV VYPHSSTPSFQ
15485	45853	A	15575	1	1001	MEAPQGALEQDGPVLSQQRH RKKPFTATPIDPSYHRSHAISLS VIIGYCVPPSHAAEMAAYGWT MGKSKLMAGQWITQSQVFCDS STDGPRQHKAQTAILTKLQSQQ RSTNNSTVSHRQQWVNCRLLR VKCQRLRAHKELLPVQRWLWR QGRCVPTTSLVAVSETAGAGA AALALSRLCRCLQVSASARFES SRTLSPQPKCWAMAASHQPIKG ILKNKTSRTSSMVALSEQPCRT VHEELSKKCQKWDEMNILSTY HPADKDYGLMKIDEPSPPYHG\ LTGDDENACSDTETTETMVSDI LAKKLAAAEGLEPKYWVQEQE SSGEEDLLAEE
15486	45854	A	15576	1	1851	
15487	45855	A	15577	73	418	GKPDGDKVSQHLLWKG/YSF/ PPSLMKLSLAGYEILS*KFFSLR TLNIGPPLSSGFRVSAERSTVSL MDFPLCITQCFSALNIFSFIST LVNLTIMCLGVALLEQYLCCVL
15488	45856	A	15578	2	460	

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15489	45857	A	15579	1	2031	MATEVFLIPYALLQCSLASYP KPGIYVPSQMWVGSVTCSDQ KNTIEVLVPKAYTLARQQYKSL SEQVYSCHQGTLNTRAQESAAS LLKPARPRTRQKKETPNTSEHQ KEQTLDTPLRTVTLTTRVRGFI LEVSETKNPPISDTMGLDISKQE EVLGRESDEQGEQSQGLSEMQ TALAMLLTREPISAKQAPHEPP RRQEDNTQAREGETRSRKTRA EGQKGHAHAENERNAKERESE RKQEAEDENGKEKQERNEGT HARHMKRRKRDEKKRQGQNK PGNKRPEGNEEAQRRRKNRE RQRFSFYQSGPSAAGLLVFAGG PLQSLFAWVSPLEAAEQQRFLS VPSSGPLRKFCLYFGFVGNATP LRGLNTHGRLLTPAHGTRRRHT RPLNSPVPEKAGSTTESNGSPY GQNPGLPPKGNRAQGEKWM GRRIQGTTRPRAREANHKKMT QIMFETFNTPAVYMAIQAMLSL YTYGCTTGIVMDSSDGVTHTV IYEGYALPRAILCLDVAGRDLT NYLMKILTEHSYSFTTMAEREI VCDIKEKLYYVTLDFEQEMAT AASSSSLEKSYELSDGQVITIGN ELSCCPEALFQPSFLSMESCDIH KTTFNSIMKCDMDIRKDLTYNT VLFGGNNMYPGIANRVQKIVTL VWMGSSILALLSTFQQMWWVSK
15490	45858	A	15580	485	886	VPYFHFTCSHSSASQLPFLQMM KIAKTCSLGLNRLPEAKLKAFP TPRVTSL/WPRQGRPRRGCGR NRSGSLVSAARGVGGRSQA ARRDAPSPPATSRMPPRQGSVS WGCARNAPGRRADPEVRRQPG PSCT
15491	45859	A	15581	1	435	
15492	45860	A	15582	2	339	HRCSTGAFSTAASNSNADRPPP ARRRGLPR/RGPP/SRRRSPRPPR REPWPRTTRPRTRTAKARRRAT LEGRCCRACGHWPRAAAAAA AAAAAAVAAAAAAAAAAAAA GASATW

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15493	45861	A	15583	1067	2093	RRNTSSKCRSRNCRCPSPHRH RPSLRPRSQQPKCKCRPSRRSS RAPSSRRSRPQGLVPC*RAPPW PTSRWPGSPGFLLNCSRKGRC RPRHPSQPRCPCRSRWCPSRQ LWSPHRESPPCP*TSRGSWRS VSHRRQQDRPWWTQPVHMQQ LLKLKQQA VQQQKAIQPQAAQ GPAAVQQKITAQQITTPGAQQK VAYAAQRALKNPVSYHTHLP PETGRGPASADPDGCKTSSSSCS TANTRGQHPASCLCFPAGFSTD CGAHAGDGGRAAGADDPCSDR DCPGGSAETHSAAGGDHGVGP APDSRRSQSPGARQLRQPKPA AQVTDEGPCCQAKDITY
15494	45862	A	15584	10	607	RALCGESRLPLARKLS*AKKSV QRSTLQSRRIWVCWFHAFAN*SL F*KQGRT*ESPL*L*LIPAS*RPS TSESPPL*KANFQQPHRGL*EKV AEGRRGP**EY\TSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SNNSSNSRHHRRRRRLLSFLSR RRRHRCCLSRSPRRRPRRHP ARLWLSRCTDQRKNFQLPRK TV
15495	45863	A	15585	217	1012	AKNDSKRQNFGRGQPTFGAD KAKGERVRTSSTIRRTSYLDTIT GPYLTGQWPRDPHGHPSCMK DKATQTP\SCWAEEGAERSHQ RSA\SWGSADQLKEETPTDLQQ NAQQKLYKPEEVGCLISDFLKE KENCQPRILYAGKLSSECTPDE EAVNIVEMITKDLEY\INLVK EWQGLRGLTPILKEVLRVKCY QTASHATKKSGMKGV\SQFGK LHCYFKKLPLPLPSATAILISQ LTSTRQELHHKKDCNLLKTQMI
15496	45864	A	15586	2	387	
15497	45865	A	15587	1	165	LFMFFCLLYIR*QLLHPGYNAPF QNTAATRGRGIAQTAPAAAFQL FLHQRVRFHC
15498	45866	A	15588	172	359	PDGDGIESINYLGQYGHFHDIDS SYP*AWNVLFPVCILFYFIEQWF IVLLEEVFHIPCKLDS
15499	45867	B	15589	1	2850	
15500	45868	C	15590	1	2835	
15501	45869	C	15591	78	491	

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15502	45870	A	15592	1	5721	MAVLSLPLAPPTLMPPAHFNLV EMQVKATLKEYWQRKSPGIPA GANRKKKINGSSPDTATSGGYH SPGDSATGIYGEHASSATLED LELRQPTPSTSPNDCSLYPSPQS SSNSSSLHAPHSQYRELAVALH SSSAIISQLSENINSLNNENKSAL QLERQVKELKLGEKTVTSDP SNNGWEAVTSLWEGERLPARG AEEPRGSESTAAARPVPVSPAA VRGRLVAGEPGSYQPAETAAK AQLSLMALPGEY
15503	45871	C	15593	178	1287	
15504	45872	B	15594	52	855	
15505	45873	C	15595	1	1698	
15506	45874	A	15596	302	617	NLAVNPSGPGLFLIGKLLIIASIS EHVIGLFRDSTSSWFSLGRVYV SRNLSVSSRFSLVFDDGDVQMG FWCGCPLCLLVFLLTAGPSAA GLLEFAGGPLQTLFA
15507	45875	A	15597	1	2762	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIQGCDFSGTCRQ TLSILTQPLRQWGLEGIKKPN WIIEESVSNGGPPLLIPRQTAS GVDLQQTPDTLQRLVLTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWDYVKRPDLRLIGVPD SDGENGTRLENTLQDI
15508	45876	B	15598	1	1989	
15509	45877	B	15599	1	762	
15510	45878	A	15600	686	850	GQPERKVGLPTKGGSPSD*QRISR QKLYKPKESGGQYSTFLKKRIF NPEFHIQPN
15511	45879	A	15601	2	382	
15512	45880	A	15602	1	993	
15513	45881	A	15603	3	460	SPCWGQLLQATQP/ATAFAQKD LLVGAVLFGHNGSLSSRNTLAF SMDVGPSQWMWGLLNGCGAS AHRQCTRCTLQVTIALEGPLAP LKLAWHKKIYIFLGEAAEIRRD QLEAERELFHSRAEQGRFLVGR PGQAAHMLPFGDCVSIWTQH MIT
15514	45882	A	15604	1	130	
15515	45883	B	15605	1	561	

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15516	45884	A	15606	94	420	EKAVGRWIFQSKRYRSPCEKPY SKGLQVQRTVPEGPSKAARAA QAPGPNLLPCLPT/PQTPEFIISEP LANMYSCGNQNTLMEELAEQA QQHDEMLHMHHALKEALSIS
15517	45885	B	15607	46	747	
15518	45886	A	15608	186	364	AFAPAPCTLVPGVLRGPPILLRE TGLAH*CPAVISPPKSLPWLPTA YSVESQQVILFGL
15519	45887	A	15609	155	511	GAAVAGTQNLCLGGGGAVGG S*RGALNGEGLLHPGYNAFPQN TAATRDRGIAQTAPEAAQFLFL HQRVRFHC*FLLWREGRGR*AR REPLSRPQPPAGPLGGALPAPPL PDASTLVGVG
15520	45888	A	15610	1352	1684	MSIRSAWCRAEFNSWISLLTFC LVDLSLVFDDGDIQMGFWCGC PFCLLVFLLTAGPSAAGLLEFA GGPLQTLFAWASAVVAEEQOI LVSSKCCCLIVPLEVLSQRSTWP
15521	45889	A	15611	98	367	
15522	45890	A	15612	426	738	VCVWGDPPGPAGGHGEEAATL WKEKVDLKERVEKLELQFIHLS GQTDITGRKYISQGA VSETQHW ERRTSSGWP GPGGDEGE PAGA AGQVLQLVGDHKEGHGKF
15523	45891	B	15613	86	1411	
15524	45892	A	15614	950	1493	GTVFLWRRRGTLIFRVSGFSAL FFPPSLWFYLPFVFDGDLQME FWYELSFLMLLLFLCACWFSF *QSGPSAAGLLEFAGGPLQTLF AWVSAVAEEQWILVNRKCCC LIVPLEVLSQRSTRPCEVSVHPY VHCCLGIEELNIYCSLHSLGLFE AILLGKA FEELGCCDPSLFATV
15525	45893	A	15615	1	5731	MDSHRPTAWPAAVLAGRSPVA AESERYCSRQPPLPRRQALLSV LVLASDTRLPPFWSSQTFCGILS KPLVLSGPLQTQGETNNENGLV GGGEVGMQPLVLFERSLFPGRG CVLERRIVPWMRQESYSSSSPI WFDVSDENLTSVLECLEDDK NNNLLHQQLKWLICGLCRLYN LPKHLDVAMPDQPLPMGQSGP SAAGLLEFTGGPLQTLFAWVSA ALAAEKQILVNCKCCCLIVPLE VLSQRSTWQYELKEYW
15526	45894	A	15616	2	521	

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15527	45895	A	15617	1	1261	MSEHNITEECQQENQSIEQWRSI AHSDSIEVSWLHEVIKTYLKAK STKLDLMKKLKLSSQPSRKPK PFIPSQEGTGDNDVIYSTERLSK LLNQKKGSTRLYDKPLSNLLNQ KKVSTRTEGLTVDSRADMRNV TTILLSTESSSTDSSSSMDSSSSM DSSSSIGRVETATCAMIPVQKSK RSGPPQGPSAATGDGAEGRFLP RCSRPWADRLAWSQPRRHLP GPSAATGDGAEGRFPLCSCCG TDLRAWPQPQGHLLALLPRCGE CGRARELPGDCCLHAEGGCSSV LEVLARAIRQKKEIEIQIGKQE VKLSLVADDIIFCLENATDSSRN LLELIKEFSKVSRYKINGHKSVA LPYINSYQAENHIKNSTPFTIAA TNNNNKKKNLGIYLAKESKDS YNENYKTATERNHRWSQAR
15528	45896	B	15618	60	499	
15529	45897	A	15619	134	1416	RTSICWTMDSSVQNTVLGPTRS SVKGVMEWLQYLQMERR/CTL SISMESMPRVAEDAGDVGAEE PLHLEPPAGPLEVEQQQAIEK HLRKTLESAGQLQAQVEANE GSSHLNRQQDERLREWKAELW EEQGETGRSSVQKDRTTISHAL SQNHQLEEQLAKELEATSQQ NQQLQSQMSLMALPGEGDELG SKEEEEAPQPMPSILEDLKSREA MVAFLNSALVSAEEEQQAQLH GQLKEQRVCCQH LAHPVALAQ KEPEAAAPTPTGGDSAVWTV DLQVEKTKFIMFTIKPGEVVNK DMAQSIYRSGKNLDDKDMYGH DLEARRKTNRPLETTFYFLSYE LDYSRCFIGCLKCLCLPSPSATI GSFLKPSQKQKPVCLLYSLQNH EPIKPLFFINYPDSYSYRHTQVIR ILLSGSIHVQVPATKTPL

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15530	45898	A	15620	1	1665	MGGHVGGRRHMLTPKLIPETL AAGSMKINPEEPNRPPINGAPG GPALPLAAGDSGSEQAGEPALA ASELQGW DSTLGSPGSLRGTGI VATRSRSGRGRFLSPASLGRRSR DRKTKELAFAGSGLATRGQRA SSDAAAGPPLSRCSPARTPQLPV RGS LTGPRAPAPPRARVCLLSC SCRQPFPLTGGLNVGRPSGPS WKICPRSLPSASAETGIRRRRAA AHPPLQQPPLCGESLPSVQCSA NADSSIPVPSRWSQDACRNTGA AGPPGYACVNNRNRDTKNSQ LDETHHMKTKVTD RGGFGAFT MLLRVVD TGHTSCSGSVEWDP RLYGDQADLSRSGHLDRPGAH HDYYTAIKKCEEKSLD TTVK VKAGVNGFGRIEHLVTKPAFNS GKVDIVTINDPFVDLNNMVYM FQYDSTHGKFCGTVKAENRKL VASGNPITVFQ/ERDPSKIKWYI AESTCIFTTMEKAGADLQGGA KRVIISAPSADAPMFVMDVNHE KYDNSLKIVSNASCITNCLAPL ANVIHNF GIVEGPMTTVHAITA TQKIVDGP SGKLA
15531	45899	A	15621	2	1105	GRVGCSTVSRIFSCVASRATSLR TPMGKVKVGVNGFGRIGRLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFGHTVK AENGKLVINGNPITIFQER\YPS KIKWGDAGAEYFVESTGVFTT MEKAGAH\QGGAKRVIISAPS ADAPMFVMGVNHEKYDNSLKI ISNASC TTNCLTPLAKVIHDNF GIVEGLMTTVHAITATQKTLD GPSGKLWRDGRGAF\QNIIPAS TGA AKAVGKVIP* AERGKLTG\ MAFRVPTANVSVDLTCRLEK PAKYDDIKK\VKQGVGGPPQG AILGYTEH\QV\SSDCNSGPPV FPPFDAG\AGIALNDHFVKLISW YDNEFGYSNRVVDLMAHMAS
15532	45900	A	15622	121	221	
15533	45901	A	15623	189	538	

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15534	45902	A	15624	3	1015	DRAGPPGAPRLGQQLLCAIILL GLAAKKKEINITIIKQLLKFLN KKPSYGLERQMETTQNLVDSY MAIVNKTVDLMVGVMPKTI MHVMINNTKEFIFSELLSNLYS RGDQKTLMEESAEQAQWRDE MLRMYHVLKEALGIIGDINTTTI STPWGPVDNSWLQVQSVLARR R/SPGLAPTAPSLPTPHRLSLGA LGTGSVPTLLHHPGSSSVSSLSG LVA/DCFGLPKARGGPGQRLPF PSLPGRFLCDLAVAPPAPKAAP FICDFVYCCDQASEPVGCQGQT APHRLHGSPLGIPQAPPGSIQA WLRAAVFWKGALCPRCGRHIQ EFLHRCTLVSL
15535	45903	A	15625	547	1242	PKALIKTSNKSSLSYQLTTHSGT MACPWIRHEVLLSRLGFLVLEN TNMDKRPSKLLRWLERQMETT QNLVDSYMAIVNKTVDLMV GVMPKTI MHVMINNTKEFIFSE LLSNLYSRGDQKTLMEESAEQ AQWRDEMLRMYHVLKEALGII GNINTTTISTPWGPVDNSCLQV QSVLAGCSFIILVQAVFLLYQA WWLLFWAPQGERWPWTSGLE DTVTRREGSPKGLSISL
15536	45904	A	15626	108	308	AQKHHLT*LSFLPRH*ILT*NLT KIPTSKIKKTPRSRSPPRSTSCFL DNLAPSCGCSGKGSWRIC
15537	45905	A	15627	687	1910	KDHQLRKKLRRRGKQGAFTAA LPPGSPRPPLRGGRSGGVGLGV RGQRTPQAPQAVTPSEGPEPLW GPVLGGGGEHRRGTGASAAAG ASMRRLGAAGGGAGAGPQRG VGARVVVSEEANSPGAAITSNR ETQDANEGLSAPRPECLLHPTC RLLYVPLIVRDWVCHTRSVLL QVVNVTGIAVGTGLASAYDTL MSQSFGVKNLKRVGIILQRGVL ILMLCCFPCWADLVNTERILL LKQDPKSPGWTRCFQEWGSYI HLVIPSMMFMVCTEQWTFEIGNF LAGLIDVMELGTQGIICELASV AYMNYFRLNPQPPISDFTINLAF LTLTERKILGYIQLRKGPDIVGP YGLLQPFTDAVKFTKEPLWPS TSTITLYIIAPTLALSIVLLALPT RMLAATPRPRGT
15538	45906	A	15628	1	1173	
15539	45907	A	15629	3	1447	

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15540	45908	A	15630	1	215	MDPKQEEIPDSPEKEFRRYRIAE WIRIHQPIICCLQETHLTHKDSH KLKV/KGWNKAFHANGHQKSA ARETK
15541	45909	A	15631	1	1524	
15542	45910	A	15632	1	575	MALSERSQPQDHVSHDRIYVK HPEYANLYRQKVDTLPRVSIS IHVGQAGVQIGNARWELCYCLE LAIQPDGQMPSDKTIGGGDDSF NMFFSEIGAGKHVPRAVFVDLE PTVVDRCLGHWMAAFLGE\EV HTGTYRQLFHPEQLISGKEDAA NNYSRGHYTIGK/EDLVLDRIH KLLTSQCRKPKATMWLSQAT
15543	45911	A	15633	208	465	
15544	45912	A	15634	107	827	EARRPCTLHLRSALHPATMCEL YSKRDTLGLRKKHIGPSCKVFF ASDPIKIVRAQRQYMFDENGEQ YLDGINNVAVHVGHCHEVVKAA ALKQMELLNTNSRFLHDNIVEY AKRLSATLPGETLCLLFYKFRG YWPSSTNPSSRPAAPASPPAAE RAGDFRAGRKPSVPGSRVS VSGS PRGPCSRLSLSTFCTRYCPLSAL TSGPGCPYPMCFFLSPRVSRLLY SSHMVAGCRALRRCKNSH
15545	45913	A	15635	3	1218	GGLWEKMAAAA\QSRVVRYLS MSRSAITAVIATSVCHGPPCRQL HHALMPHGKGGRSSVSGIVAT VFGATGFLG\RYVVNHLGTAW GSQ\VIIP\YRV*IKY*QSMHLSFP WG*PGGQLSVFLGNWGTARD* RFLFRRVSYNTGNVGSSILFGTR LGETKNFDFWRDVFKIPQAIA \QLSKGSWEFEKFISCFHIWNGG II*KALS*DI*GNKAVGEKVVRD AFP\EAIIVKPSDIFGREDRFLNS FASMRHFG\PIPLG\SLGWKTV KQPVYVVDVSKGIVNAVKDPD ANGKSFAFVGPSRYL\LFHLVK YIFAVAHRLFLPFPLPLFAYRW VARVFEISPFEPWITRDKVERM HITDMKLPPLPGLEDLGIQATP LELKAIEVLRHRHRTYRWLSAEI EDVKPAKTVNI

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15546	45914	A	15636	2	799	GLWEKMAAAAQSRVVRVLS\ MSRSAITAATSVCCHGPPCRQL HHALMPHG\KGGRSSVSGIVAT GFGA\TGFLRRYVVNHLGRMG SQVIIPYRCDKYDIMHL\RPMD LGQLLFLEWDARDKDSIRRVV QHSNVVINLIGTRP/WKSKNSD YEDVFKIPQAIAQLSK\EAG\V EKFIHV\SHLNANIKSSSRYLRN KNRKREKEEMKKDLLSKKEPE PEDLENSQLIHIKNEKACFEEN TKSVAEQPFDEEIVDATHQLTS YLGRSQE
15547	45915	A	15637	560	1394	RKSSSVHNAASGLLGSRAPGAH RHLGRCRCRHLVSPSPAMAE DLAATSYTEDDFYCPVCQEV KTPVRTTACQHVFCRKFLTA MRESGAHCPLCRGNVTRRERA CPERALDLENIMR\KFSGSCRC AK\QIKFYRMRHHYK\SCKKYQ DEYGVSSIIPNFQISQDSVGNRIE NNTGIKQIPGAPAFGDGRVGC QRNAKTELLAAGESPCTMSL GSGPNLGPSPRSKSSSVTSPQPC FTEHPRERFVSFPVHYVLEGS MSFLLWSLKTDRIFGH
15548	45916	A	15638	1	1026	MKVVCKEVKFEKQCPEAVLLH WEQTDDDENKRCDLREPRKPE THTKGPGLLVPTTQGRNEGQS GADGKHARCSKTSCCLSGKEPS FIITEHCPLVPVQNTTIKPDGIR ILQTLDSRETFTMSTALDVLQM KEEDVLKFLAAGTHLGGTDLD FRMEQHICKRKSGGIYINLKRS WEKLLLVAIPAIAIENPADVSV ISSSTGQRAMLKCAAATGATP IAGHFTPGTFTNQIQA TFPNPRV LVVTD CRTGHQPLAEASYV/NN LPTIALCHTDSPLHHVDIAIPCN R/KAHSV DLMWMLAREILPMR GTIARKHWE\DP EEIEKEEQ AADKALTKEEFQGE
15549	45917	A	15639	20	441	TAEIAIPCNKGAH SVG*MWR MLAREDLMRG TISGEHPWEV MPDLYFYRDTEEIEKEEQAAAD KAVTKEEFQGEWTAPAEFTAT QPEAADWSEGVQVPSVPIQQFP TEDWSAQPAT EDWSAAPTQA TEWVGATT DWS
15550	45918	B	15640	88	531	
15551	45919	A	15641	1	1302	

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15552	45920	A	15642	150	957	KAGASCCGSANPYVSVGKSCV LLAMAQLQTRFYTDNKKYAVD DVPLSIPAASEIADLSNIINKLLK DKNEFHKKHVEFDLIKQQLRM PLDRHMEMENISSEEVVEIEYV EKYTAPQARSNAWFHDDWISSI KRGRG\RILTGSYDKTSRIWSLE GKSIMTIVGHTDVVKDVAWVK KDSLSCLLSASMDQTILLWEW NVERNKVKALHCKKGHAGSV NSIAVDGSGTKYFGLRIEKP PAVSLVEEINSLSYRWTADNYKV GSGGKEED
15553	45921	A	15643	3	393	VFCCPHCSLTFSKSFSSFSRLVR HQQTHWKQKSYLCPICDLSFGE KEGLMD/HLEGL*RQGPQSSH HKCRVILGQWLGFSDVPTMA GEEWKHGGDQSPPRIHTPRRRG LREKACKGDKTKEAVSILKHK
15554	45922	A	15644	335	537	VYFKQVTLDSRCRL*ERQVKST SSWNILSSTWRLPFCPTSVVLR FTWICLRTISTSSISWFPADSS
15555	45923	A	15645	153	828	

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15556	45924	A	15646	1	2002	MLESAGNQDIEDVDIVLRQIQV KNRSTTEVGQNGNLQVEVSYT QAHIA PRPLASQGTWPHFVSSA PQPCFQVQNHSKYQNLYYSGFI RETEPISKGDVGWLSAGKGES SAMFASEQEISKDEQGTPVLGS FYWEVDS PRKESSQAWAPGQE WIKLERDTTECKMFEQLKPIEP VQKTL PWVGEVAATLQEAMK RDCWREARVKKKPVTFEDVAV NFTQEEWDCLDASQRVLYQDV MSETFKNLTSVEGKKKELREQ HPSLRDEGTSDDKVFLACRGA GQCPLSAPAGTMDRTRVLQAS QAGPP/FFFATTVGKCFSSRRSYL YSHQFVHNPKLTNSCSQCGKLF RSPKSLSYHRRMHLGERPFCCT LCDKTYCDASGLSRHRRVHLG YRPHSCSVCGKSFRDQSELKRH QKIHQNQEPVDGNQECTLRIPG TQAEFQTPIARSQRSIQGLLDVN HAPVARSQEPIFRTEGPMAQNQ ASVLKNQAPVTRTQAPITGTL QDARSNSHPVKPSRLNVFCCPH CSLTFSKKSYSLSRHQKAHLTEP PNYCFHCSKSFSFSSRLVRHQQ THWKQKSYLCPICDLSFGEKEG LMDHWRGYKGKDLCSHSHK CRVILGQWLGFSDVPTMAGE EWKHGGDQSPPRIHTPRRRGLR EKACKGDKTKEAVSILKHK
15557	45925	A	15647	1	1048	MPSLAELFEGSSKAFGAAASQL NFPVASGEMLKFKYGLRNPLH AVAAEPIASRTSRLNFFQGKPP FMTQQQMSPLSREGILDALFVL FEESQPALMKIKHVS NFVRKY SDTIAELQELQPSAKDFEVRSLV GCGHFAEVQVVREKATGDIYA MKVMKKKALLAQEQVSFFEEE RNILSRSTSPWIPQLQYAFQDK NHLVLM EYQPGDLLSLLNR YEDQLDENLIQFYLAELILAVH SVHLMGYVHRDIKPENILVDRT GHIKLVDFGSAAKMNSNKMVN AKLPIGTPDYMAPEVLTVMNG DGKGT YGLDCDWW SVGVIA Y EMIYGRSPFAEGTSARTFNNIM

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15558	45926	A	15648	101	220	KRQQA FGLLDLHQWFARGSQG FRLQTEGCIIGFPTFEV*RHSGFL SCQSSCTGSFSSVWADVPLMFE GAAQPV*PVPSRGSA DFRPLSIC *RSSRILLVKRCENSGVR
15559	45927	A	15649	597	808	ITMKSQRQIIKKA VTTKEMKSV CRRD/TPAFMFIAALFKIAKIRIQ RLCLSTDEWIKKMWYIHTMEY YSTLK
15560	45928	B	15650	161	3156	
15561	45929	A	15651	14	270	
15562	45930	B	15652	787	1821	
15563	45931	A	15653	1	2412	MAKSKGCSAATLASTHQILVTP WSCDNQKCLQTL PNPVGGTKL LLCEDHWFRNDSCNQA IPTIAT LLSFPSLQASLWTHFLSPLNH HPVNPDSHLEQPPGQSPRLNFE AGDPERAPHALGCKRSRTRATS DRQPMASRDPGWGKASVGKA CALGSAVLPAGNDCTTDNLGL GSAGFEDLRLRLGQGPPRRQGA LQAAPRKASSCAAGQRLAPDSS FSRKRPSRQRLGCETAAVADT AEAKSSEAPAFGWSTMD EAGS SASGGGFRRALDEPPNSRIFLVI SKYTPESVLRERFSPFGDIQDIW VVRDKHTKESKGIAFVKFARSS QACRAMEEMHGQCLGPNDTKP IKVRVPGSGCPRGKEWASWTSL HLLLCRGE GVEHPFAADQT APGLGTGAALRRGSPPTKLRRV AGKGTGCGVFAPRERTRQPRPP GDRTAVAGLPSPSPSLIHQLLSS LPNSS*PTLSTFLTFLSQMPRFP YIKNGKTL/PPQVFIAQSRSSGS HRDVEDEELTRIFVMIPKSYTEE DLREKFKVYGDI EYCSIIKNKVT GESKGLGYVRYLKPSQAAQAIE NCDRSFRAILAEPKNKASESSE QDYYSNM RQEALGHEPRVNMF PFGHG VVQYFNVASAIYAKYK LHGFQYPPGNRIGVSFIDDGSN ATEKMATQMVA AQLASMVWN NPSQQQFMQFGGSSGSQLPQIQ

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15564	45932	A	15654	375	2059	DSSVWQTPQKQRAVRPLHSGG APWTKLAALRATRGRPGVDS LDEPPNSRIFLVISKYTPESVLRE RFSPFGDIQDIWVVRDKHTKES KGIAFVKFARSSQACRAMEEM HGQCLGPNDTKPIKVRVPGSGC PRGKEWASWTSLLHLLCRGEG GVEHPFPAADQTAPGLGTGAA LRRGSPPTKLRRVAGKGTGCG VFAPRERTRQPRPPGDRTAVAG LPLSLALTNPALLEFTAKLVLA YFEYFSDLPLSDAQISYKKRKN STFPQVFIAQSRSSGSHRDVEDE ELTRIFVMIPKSYTEEDLREKFK VYGDIEYCSIIKNKVTGESKGL GYVRYLKPSQAAQAIENCDRSF RAILAEPKNKASESSEQDYYSN MRQEALGHEPRVNMFPFGHGV VQYFNVASAIYAKYKLHGFQY PPGNRIGVSFIDDGSNATDLLIK MATQMVAQAQ/RLHQWCGITQV SNNL/WQFGGSSGSQLPQIQTD VVLPSCKKKAPAETPVKERLFI VFNPPLPLDVLEDIFCRFGNLI EVYLVSGKNVGYAKYADRISA NDAIATLHWKDSEWGET
15565	45933	A	15655	257	412	
15566	45934	A	15656	3	866	HAASPCCCYEEKQSPLQKHLRV CSLRTWSLAARVAEGTAETVD PSAAPKTSVWSSRVCWGRLLA TISPSVNETDTCGMEDRRLVVC RPWRAQCHMKAWGWRHPEEG GTHSGAPSAVLQALAVAIQLGG HLADPLLQVDPLSSCGAVSLDI LIYLVFYYRTASVPETYIVKTLF KKLESQSLIQSNVLTRSNSMKA ERGEEAAKEKSEASRGWFMRF KERSCLHNIKMQGEAASADVE AAASYPKDLAKITDEHGYTKQ QFDVYKTAFCWRVMLKKYVK LLFVLCPLP

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15567	45935	A	15657	333	1034	RLSTTVMRGAFVFMHKMPRL WLDYCCQFLMDQGRVTHTRRT FDRLRALPITQHSRIWPLYLRF LRSHPLPETAVRGYRRFLKLS ESAEEYIEYLKSSDRLDEAAQR LATVVNDERFVSKAGKSNYQL WHELCDLISQNPDKVQSLNVD AIIRGGGLTRFTDQLGKLWCSLA DYYIRSGHFEEKIRKAPVNGGPT WMVGQNSVPRFQTRRLTPLKR KGPLVTDREKQPTPLAQE
15568	45936	A	15658	172	346	ARPCRWCPS*TSASAPGPGLR PCPP\GGDRTPASPPLHNQAAA APPGPGTWRGAAAS
15569	45937	A	15659	293	482	
15570	45938	A	15660	468	791	LAKCGCLEARGRARQTSGRPRP TDGGP*SPCWETGKGHPVLGR RGS/PGKQGL*SLPQSCQGQWR CAASRLSSKNSWACMGSSREA VSQETGTSSSSLGLMRPSDKKP
15571	45939	A	15661	366	609	
15572	45940	B	15662	321	739	
15573	45941	A	15663	1	1815	
15574	45942	A	15664	1	1911	
15575	45943	A	15665	437	1125	PVSCSGHSRWAAAAISIALSMIE TVNMVFTFYSRHHGTISTRVL/ GKRPERQDQDTVNLGTLEET ASPSPVVTTSPQPMLPSAFPPL SEEINPALPEATVMASPEAVAR QDNVDSAQEPPPTPLCASRPTT RQKSWWGARGEVESVTHEEM HYTGKELLEFSNLYKEKSGEQA WEWILRVWDNGGRNIQLDHPE FVDLGPLSRNSAFNVAVRGVK KGSKSLFAWLGEI
15576	45944	C	15666	49	186	
15577	45945	A	15667	80	877	GAERLPEGPGKRMVFRFVE\V GRVAYVSFGPHAGKI/VSAMVD V\DQNKGFWSNGPCTQVR\RQ A\MPFK\CMQLT\DFILKFPHSAH Q\KYVRQSLGRREDINTKLGQP TRWGQGRFESQEEKEKPRLTDF *SVF*S**RAKEN*RDRINPRNE V*EAFKRAAFPGKASSQKAPG Y*GVLLAAAAAAAAAAAAAAAAA AAAAAAK\VPACKITAASKK APAKVPAQK\ATGQK\AAPAP KAQNGSKSSKPQKAPAPKASG KESISGNHKK
15578	45946	A	15668	253	1218	
15579	45947	A	15669	1	1819	

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15580	45948	A	15670	1	2422	MCPILREHRGSTEKGRRQKRLP LELTLKDEEVLAHRQEIEVAKA SPSKGNIIHFGYKGVVEYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLPGCDYRGESAR ARPLSHPPQLGLGKDARYLRI CDRSLLCVCAAAGNAGLRPRD SPHTLLHWSRSPYFFSPKPVPP QLLGGQPAAHSRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPIVLVRPT NRTRRLDSTGAGMGPSHQQQ ESPLPTITHCAGCTTAWSPCSFN SPD METPLQFQRGFFPEQPPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPHLAHQQPASGGSS PCLRCNSCASSGAPAAGAGDNL SLLLR TSSPGGAFRTTSSPLSG SSSSSSSSSRRGSQ LNVSELTP SSHASALRQYYAQQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHPHAPHQH HQPQARRESNPFTEIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQLQPPASVGGGGGASSP SAAAAAAAVSSSAPEIVVSKP EHNNSNNLALYGTGGGGSTGG GGGGGSGHGSSTGKSSKKK NQNIGYKLGHRRALFEKRKRLS
15581	45949	A	15671	1	246	SEPPHRGPTGALPSGAVRRGPL SSRPQIGRSTDSLHCVP GKATD AQRQPVKAAGSGAVPCKATG WSCP KL*EPISCINVTIC
15582	45950	B	15672	43	741	
15583	45951	A	15673	687	1012	FHTSRPFWNISELSRFCIQKYKK PWHSVSDFYRYQFFICQGTACC PASLRM*HCPN*ILQGTSSQNCC SCSGKSCSPMQQRHRSTVCSGS GTFCVGSCESEFEGTYFSR

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15584	45952	A	15674	1	1640	MSCDTNGEVEGGRVDSKTRGR QEVERNTETHLGSGLNCDIPLIF LTYEWRGILEYKIFSVKTGEVL GKPGQLGHPTGQTTFFETGTQV TSMQEMGSYSFGQPHVALQG TAPLPAAFTGWRLASVAFPGTQ CKLSVDLPWGLEDSGPLLTAP LGSAPVGPLCGGSDPTFPFCTA LTGPSAASLLEFARGPLQTLFA WVSAEVS AEQGFVNHECCCLI VPLEVLSQRSTRPCEVSVCYPW GVPPRDRSNQCPSGFTLDSVGP FCADEDECAAGNPCSHSCHNA MGTYYCSCPKGLTIAADGRTC QDIDECALGRHTCHAGQDCDN TIGSYRCVVRCSGFRRTSDGL SCQDINECQESSPCHQRCFNAIG SFHCGCEPGYQLKGRKCMDVN ECRQNVCRPDQHCKNTRGGYK CIDLCPNGMTKAENGTCIGECL AVSVTEIS/CAVNKSNIDECKDG THQCRYNQICENTRGSYRCVCP RGYRSQGVGRPCMDIDECENT DACQHECKNTFGSYQCICPPGY QLTHNGKTCQGKLPFKQIESGG
15585	45953	A	15675	1	669	MGFCHDGRSIAFRGERGNDESA IEMIKVSHLKQYLAVVFRDKPL ELWDVRTCTLLREMSKNFPTIT ALILTGRCASLKWRSPKKEEF MGYRQWNPTQESSKGDFEIQ EGGPSMATVYRTEMQPVQIGIE LLPSPLSFHPSPNSGIPNDPSWL LSTATLHPPTGVERSSSPATEQR WTENDFDELREEGFRRSNYSEL REDTQTKGKEVENFEK\NLEECI
15586	45954	A	15676	1	323	MAHESAEDLFHFNVG GWHFSV PRSKLSQFPDSSLWKEASALTS\ SESQRLFIDRDGSTFRHVHYL YTSKLSFSSCAELNLLYEALG LQLMPLLQVRCSCFLGVVDQ
15587	45955	B	15677	1	1443	

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15588	45956	A	15678	1	708	EV TASPQGVSAVSKGDQKWT ALGKGLTFIKAVGSIQRNRWRG WQLKALYQCTTIAGATGVFLR VYRALDVLQMEEDVLKFLAA GIHLGGTNLDFQMKQYIYKKK CDGVYIINLKRTWEKLLLAACA IVAIENPADVRVISSRNTGQRAI LKFAAATGATPIAGRFTPGIFTN QIQATFQEPQHLFFTDSDRADH/S PLTEASYVNLHTIAPRNTD SPLC YVDIAIPCKKGAHSVGL
15589	45957	A	15679	78	757	REIFINVRSLLMACFVKEEDVL KFLAAGTHLGGTNLDFQMEQY IYKRKSDGIYIINLKRTWEKLLL AARAIVAIENPADVSVISSRNTG QRAVLKFAAATGATPIAGRFTP GTFTNQIQAAFREPRLLVVTDP RADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNNKGAHSV GLMWWMLAREVLRMRGTISR EHPWEVMPDLYFYRDPEEIEKE EQAAAE
15590	45958	B	15680	1	1767	
15591	45959	A	15681	98	412	
15592	45960	A	15682	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15593	45961	A	15683	117	285	
15594	45962	C	15684	12	468	
15595	45963	B	15685	1	840	
15596	45964	A	15686	1	1173	
15597	45965	A	15687	1	2931	MDLFMNVAMLAARYLWSEA VSGFGAQDPKSLALRTHCQTSG WSLTEQDPYNNVIRTTIEALAA TLGGTQSLHTNVFDEALGLPTD FSARIARNTQIIIQEESEL CRTVD PLAGSYIESLTDQIVKQARAI QQIDEAGGMAKAI EAGLPKRMI EEASAREQSLIDQGRVIVGVN KYKLDHEDETVDLEIDNVMVR NEQIASLERIRATRDDAASDTR EIVDLTNGNIKTFNGSIIYARFD TGRHLFSGGNT
15598	45966	C	15688	1	1779	
15599	45967	B	15689	22	1531	
15600	45968	A	15690	98	412	
15601	45969	A	15691	521	600	PSPGES/PPLQPDPPVPPWPPPEE EPRA
15602	45970	C	15692	175	454	
15603	45971	A	15693	332	494	RKEMASGFSKGPTLGCC\RRAL PDGDTQLQLLLRGNHDSVLGA KRRDKGEAGPD

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15604	45972	A	15694	2	1276	HTLHSLVTILGTWALHSGPALL LPRPGSGLDLFLSPVLPSPQPPG LPTPTPFTNAVQLLLTLKLVSLA SEVQDLHLAQRKEMASGFSKG PTLGLL/RRRALPDGDTQLQLLL RGNHDRPVLPPLPLPGLAGAAL PRGSA\SLRPLLRRAWPAPLFG LFLSSHLFPLEAVREDAFYARP LPARLFYMIPVFFAFRMRFYVA WIAAECGCIAAGFGAYPVA ARA\GGGPTLQCPPSSPEKAAS LEYDYETIRNIDCYSTDFCVRV RDGMRYWNMTVQWWLAQYI YKSAPARSYVLRTAWTMLLSA YWHGLHPGYLSFLTIPCLAA EGRLESALRGRLSPGGQKAWD WVHWFLKMRAYDYMCMGFV LLSLADTLRYWASIYFCIHFLAL AALGLGLALGGGSPSRKAAS QPTSLAPEKLREE
15605	45973	A	15695	134	601	RDGEQPLWAWGSPCSPVAPTL CILWAPSSGPGSPFRSPAPATP WLWPGLSPISCDSEPSASWACP LPCPSPKPDRWLLTLKLVSLAS EVQDLHLAQRKEMASGFSKGP TLGLL/RRRALPDGDTQLQLLL RGNHDSVLGAKRRDKGGQTTH FVQV
15606	45974	B	15696	76	504	
15607	45975	A	15697	11	706	HITRGRSCTRWTSSAMAKGAPR VILLCLFGAALCLTGSRALQCY SFEHTYFGPFDLRAMKLPSISCP HERFEAILSLDTGYRAPVTLAR KGCWTGPPAGQDAIEPGRAAA RLLGIVRGCTTDKCNALMTH DALPNLSQAPDPPTLSGAECYA CIGVHQDDCAIGRSRRVQCHQD QTACFQGNRMTVGKLEGW KGLGKGYGGRAAMRVVIPDRP NRETWPCSEVGGMTLV

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15608	45976	A	15698	2	1642	DEGRAKGHHTWQQTRENEQA KGETPYKTIRFRETYHKN ETTPMIQLSPTGSLPQHV ATIQDKIWVRTGLPGFPG PVSSGFPSPGFPGLQGPP PTGIPGPIGPPGPPGLMV GLPGPKVILGLNFQGPKE KGLQGPPGPPGQISEQKR FQKGDQVSNGDRGPPGPP PPVSTGGEKGEKGEQGE VSEGKDGENGQPGIPVSS YPGEPGRDG/EKGKNVMG PGFPGERGQKGDGPPGIS PGLDGGQPGAPGLPGPP IPPSKLGDTFCNCIGTG PGLPGLPGPPGKLAPGAP GSKGEPGDILTFPGMKGD GSPGAPGLPGLPGTPGD LPGPKGEPVSCTFKGER PGLPGLPGNIGPMGPPGF VGEKGIQGVAGNPGQPG GDPGQTITQPGKPLPGNP GDVGLPGM*GLPGQPLPG SKGEPGIPGIGLPGPPGP KMLL
15609	45977	A	15699	246	433	GLFPLEPGANGI*GC/SG RWLPGRPKFTGESFIR*P ESGQLIWFGCVPTQISS
15610	45978	A	15700	179	5262	RSCGSRRRMKLRGVSLA LALSLWGQPAEAAACYGC SKCDCSGIKGEKGERGFP HPGLPGFPGPEGPPGPRG DGIPGPPGPKGIRGPPGL TPGLPGMPGHDGAPGPQG NGTKGERGFPSPGFPGLQ GPPGIPGMKGEPGSIHMS KGNPGYPGPPGIQGLPG PIGPPGPPGLMGPPGPP GNMGLNFQGPKEKGEQGL PPGPPGQISEQ
15611	45979	A	15701	155	623	FNYLPPGPPSHN/DVGIM KIWGPPGLPGFPGTPGLP FPGSPGFPGLQGPPGLPG GPIGPPGPPGLMGPPGPP KGNMGLNFQGPKEKGEQGL GPPGPPGQISEQKRPI DQVSNGDRGPPGPPGIRG PPVS
15612	45980	A	15702	581	687	KKGAGQVV/DDVQLAQLA NEIVLSWNCWMLCKQY
15613	45981	A	15703	7	123	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15614	45982	A	15704	1	374	RFRKAQCTIVERLTNSMMMHHG RNNGKKLMTVRIVKHAFEIIHL LTGENPLQVLVNAIIN/DVSPLR RVNHAIWLLCTGAREAAFRNIK TIAECLADELINAAGSSNSYAI KNKDELERVAKSNR
15615	45983	A	15705	2	892	QAFLPITPDQLSNYKVFACKTA LWQNDDVHSQHKGEYRNAAG EPKYRNSVTTHSEGWQSEKG KDLGVGYWSMACYKLGHIAG NEQQKHICGGIAKKWKQPKCP PTGKWPAVVKPATESEGGGAK KEEKAHLPRVVEKELHESSRHI RHSIESVLLQFTQKDYTAVKE KYAKYLPHTSAERYAAKRFKA QCPIVECLTYSMMTHGRNNRK KLMIMRIVKHAFEIIQLLTGDNP LQVLVNAIINSGPREDSTLTGRA RIVRRQAVAVSPLSRVNQAIWP QCTGALEAAFRNIKTIA
15616	45984	A	15706	1	536	
15617	45985	A	15707	8	437	
15618	45986	B	15708	255	1058	
15619	45987	A	15709	609	1489	LPLSLPRAARPAVAPHLPPREPG PALPLPPPQPPRPPSLPGSAQGC NS*RTGTAAAGAGPFAPASMSL RVQTPCWPRGAREPPGSCAS WLFCVWQMVRAHSGCPLAPP PAAAAWVAAQLQP*DGHEGPG G*ET/S*VLRLRPTPTPLPTWCC TVRPRRPVLPFCLIMRRRTAGPP CAPIAAAPTTPSSLRRGKVPTGR PPVL*G*AAVMLTMAVTITRTV TTSCNAAAVMPPKTGTAHRAP LTPGTV*RDLCCLKPTAQMPPS APPWTAPPRVAVAPVIVLPAIS NLGAFA
15620	45988	A	15710	173	530	GRERGDKGGAVQTLQDLNVN HLGLTYPPRPGHSPPSWASPQ APLQPPLRGEPGHGWGS/PSGL GQKSEGLGPAHLPRARPVAV APHLPPREPGPALPLPPPQPPRPP SLPGSAQGCNS
15621	45989	A	15711	1	227	
15622	45990	A	15712	238	498	
15623	45991	B	15713	1	1017	
15624	45992	B	15714	590	649	

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15625	45993	A	15715	3	843	AVFLSTSNEAVYKIFDDSPCPFT AKTCNPETFPSSNESRQCPNAR CQFAFYGGESGYHRALLGLQIF NAFMFFWLANFVLALGQVTLA GAFASYWALRKPPDLLPAFPLF SAFGRALRYHTGSLAFGALILAI VQIIRVILEYLDQRLKAAENKFS YCLMTCLKCCFWCLEKFIKFL NRNAYIMIAIYGTNFCTSAR\NA CFLLMRNIRVDVLDKITDFLFL *GKLLIVGIVGILAFFFFTHRJRI VQDTSPLNYYWVPILTIVIGS YLIAHGFFQRY
15626	45994	A	15716	1	449	FRGMGDERPHYYGKHGTPQKY DPTFKGPIYNRGCTDIICCVLL LAIVGYVAVGIIAWTHGDPRKV IYPTDSRGEFCGQKGTKNENKP YLFYFNIVKASPLVLAGIQCP TPQICVEKCPDRYLTYLNARSS RDFEYYKQFCVPGV/PRTIKKA NGVLEAGNSPCAYLKITPSLGT DY/PWFLLEFQCPTPQICVEKCP DRYLTYLNARSSRDFEYYKQFC VPGVQEQ
15627	45995	A	15717	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPMQGMHTQEKEQVK TLNKSASFVDKVLFEQQNKM LETNWSLLQQQKPAQSNMDN MFESYINLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEEIPELQSQILDTS VVLSDMNSRSLDMDSHAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAKQDMAHG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod.	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15628	45996	A	15718	3	3908	STQQKTARSNMDNMFESYINN LRRHVETLGQEKLKLEAELGN MQGLVEDFKNKYEDEINKRTE MENEFVLIKKDVDEAYINKVE LESRLEGLTDEINFLRQLYEEI RELQSWISDTSVVLSMDNSRSL DMNSVIAEVKAQYEEIANRSQA EAESMYQIKDEELQSLAGKHG DNLRCTKT*DLLR*TRNISRLQA EIEGLKGQRAFLEAAIADAEQC GELAIKDANAKL/SELEAALQR AKQDMAWQLRLMN
15629	45997	A	15719	1	804	MKPRTLVSSTVLKDGVSRC SFRCSDVSRISFQWVRGLADF RNEATDPHGLDDILTLRQDKG SFMICWLKKGAPPDPAPPRITP TVRFSTMDLSAASHRIP\LSDGN SIPHGLGTYSEPKSLWATNHVP EMVRPTLERTLRVLQLDYVDL YIIEVPMFAFKPGDEIYPRDENGK WLYHKSNLCAWTEAMEACK\ DAGLVKSLGVSNFNRRQLELIL NKPGLKHKPVSNQVECHPYFT QPKLLKFCQQHDIVITAYSPLW TSTNP
15630	45998	A	15720	476	906	WKQSHSHQTWYLLTSEACKD AGLVKSLGVSSFNRS\QLELIQN NPGLKPKPVSNEVECHPYTQP KLLKFRQQHDIVMIAYSPLGTT RNPTWTNMSSPSLKDALLKR CNKITAQVILRFNIQQGVVIPK SFNPEKIKENLQA
15631	45999	A	15721	138	217	RHAPQVLGGLSEGT*GGHRCPA RGHW
15632	46000	B	15722	8	578	
15633	46001	A	15723	1	3087	
15634	46002	A	15724	1	2232	
15635	46003	A	15725	1	2085	
15636	46004	A	15726	1	1512	
15637	46005	A	15727	1	1260	
15638	46006	B	15728	1	2145	
15639	46007	A	15729	1	1353	
15640	46008	A	15730	1	1741	
15641	46009	A	15731	1	1995	
15642	46010	B	15732	1	3464	
15643	46011	A	15733	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
15644	46012	B	15734	90	1247	

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15645	46013	A	15735	1	1698	MELKAKAQELREECRSLRSRC NQLSESVSVMEDEMNMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLTGVHESDGENGTLEN TLQDIIQENFPNLARQANIQIEI QRTPQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKKAGV AILVSDKTDFKPTKILKDKEGH YIIVKGLIQEELTILNTYAPSTG APRFIKQVRSDDLQRLDLSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTTFSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRIKKLTQNHSTTWKLNLL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVVCTG KFIALNAHKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEKETQKTL/QKINESRS WFFERINKIDRPL
15646	46014	A	15736	1043	1536	TSTELSTPNQQNIHFFQHHTTSI PKLTTYLEVKLSS*KKH*TWKG TTGTSCC/INHAKIVTHRLKIKG WRKIYQANGKQKKAGVANLV SDKTDFKPTKIKRDKEGHYIMV KGSIQQEELTTLNIYAPNTGAPR FIKQVLSDDLQRLDLSHTLIMGD FNTPLLTLDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHIYSKTDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRJKNLTKNRSTTWKLNLLLN DYWVHNEMKAEMKMFFETNE NKDTTYQNLWDTFKAMCRGK FIAVNAHKRKQERSKIDTLTSQ LKELEKQEQTHSKASRRQEITKI
15647	46015	A	15737	1208	1387	KPWQKNYVTHAQASVADLIK WKKGYQ*LKIK*MK*SKKRSLE KKE*KETNKASKKYGTI
15648	46016	A	15738	308	487	KPWHKNYIMHAQASVANLINW KKGYQ*LKIK*VK*SEKRSLEK KE*KEMNKASKKYGTM
15649	46017	A	15739	220	1101	
15650	46018	A	15740	1	1534	
15651	46019	B	15741	365	3904	

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15652	46020	A	15742	79	506	EPSQRHSQDLQGWSQEHQVCL HRVGWGHGHCATCILPAATASHE GPEAW/TARLLVPQTAVGICSA FSGLPSTTHEPTGMHFLPSEAHE KPRTQPDQKRGRDDLPTPSTC LHTSLFLDTGQEFGTCRMAGLK EHVAGDNRERRQ
15653	46021	A	15743	2	71	ELKF**FPILSPSRKTSPLRQGS
15654	46022	A	15744	1	627	MKAEIKMFFETNENKDTTYQN LWNTFKA VRRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ THSQASRRLNQEEVESLNRPI GSEIEAIINSLPTKKRPGPDGFTA EFYQRYKEELPK/YLLKQLQQS LRIPNQCAKITSIPKHQ*QTNRE PNHE*TPIHNCFKDNKIPRNPTY KGREGPLQGELRTIAQRNKRGH QMEEHSMLM
15655	46023	A	15746	1	3828	MQLPVQTIAADGYVIKLQKRTT EDGHQSPERHQFPHLSSYSEQE TTRVPFAKAVASGFPDGTTLVF CASPQSPQVHLPTQAVADIFSE FHEHYARISTAPSVTLKANMM GSEFPTARLSNSKYPETLEVGES AQPVPMTWKTVAQDRKDG SPPLLEKQSITKSISNKPVELSSK VVEVDASKADHMKKMASMGL VHSMAGSGLVLSRSEILKEISSL RNGCAIYRSEFISTDPSSWVVP PRTNEENNGES

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15656	46024	A	15747	1	1639	NCLSDHSAIKLELRICKLTQNCSTTWKLNLLNDYVVHNEMKAEIKIFFETNENKDDTTYQNLWDTFKAVCRGKFTALNAHKRKQERSKIDTLTSQLEKEKQEQTHSKASRRQEITKIRAELEIETQKTLQNINESRSLFFEKINKIDRPLARLIKKKKREKDQIEAIKNDKGDITDPTIEIQTIREYVYKHLVYANKLEYLEEMADKFLDVTYTLPRLTQEEVESLNRPTTGSEIEAIINSLPTKK\SPGPDGFTAIFYQRYKEELVPFLLKLFQSIEKEGILPNSFYEASHILIPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHHDQVGFIPGMQGWFNIRKSNVIQHINRAKDKNHMIISIDAGKAFDKIQSFMLKALNKLDIDGTAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLI SNFSKVSQYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDINKWKNIPCSWVGRINI
15657	46025	B	15748	1	1563	
15658	46026	A	15749	1	4332	

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15659	46027	A	15750	1	2319	MRIDGAQELTLALPFASGVACR DVKPGPRRRPLRYRCFQKPSNR LGSASLGAGFWAGRRDAKSGH DDDPGALFSVTMDRDLEQAL DRAENIIEIAQQRPPRRRYSPRA GKTLQEKLYDIYVEECGKEPED PQELRSNVNLEKLVRRESLPC LLVNLYPGNQGYSVMLQREDG SFAETIRLPYEERALLDYLDAAE LPPALGDVLDKASVNIFHSGCV IVEVRDYZQSSNMQPPGYQSRH ILLRPTMQTLAPEVKTMTTRDGE KWSQEDKFPLESQILATAEPL CLDPSVAVACTANRLLYNKQK MNTDPMEQCLQRYSWPSVKPQ QEQSDCPPPELRVSTSGQKEE RKVGQPCELNITKAGSCVDTW KGRPCDLAVPSEVDVEKLAKG YQSVTAADPQLPVWPAQEVED PFRHAW EAGCQAWDTKPNIMQ SFNDPLL CGKIRPRKKARQKSQ KSPWQFPDDHSAWLRPGSETD AGRAVSQAQESVQSKVKGPGK MSHSSSGPASVSQLSSWKTPEQ PDPVWVQSSVSGKGEKHPPPRRT QLPSSSGKISSGNSFPPQQAGSP LKRPFPAAPAVAAAAAPAPAPA PAAAPALAAA VAAAAGGAAP SHSQKPSVPLIKASRRRPAAGRP TRFVKIAPAIQVRTGSTGL/IGH QRGGPSPGSPGISGSLQSSGGP LPDARPGSSAGCPAPLCLG\QQP

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15660	46028	A	15751	409	1874	YDSYIVVIDDADITRGDDAVPR DHHSSTSMVVFRHIRLDVIVVD GDDQHRRMVGRRCRSAWFRR GSLDVDQVIGDTAAGRLNVMG DITRDARRDKVKNERYGVAPS VAFGLGTANRLYLNYLHVTQH NTPDGGIPTIGLPGYSAPSAGTA ALNHSGKVDTHNFYGTDSYD DSTTDTATMRFEHDINDNTTIR NTTRWSR/S/WTWSRTANTKDV SNKILTNQTNLTSTFYTGSIHGD VSTGVEFTRETQTNYGVPVTL PAVNIYHPDSSIHPGGLTRNGA NANGQTDFAIYAFDTLQITRD FELNGGIRLDNYHTEYDSATAC GGSGRGAITCPTGVAKGSPVTT VDTAKSGNLMNWKAGALYHL TENGVYINYAVSQPPGGNN FALAQSGSGNSANRTDFNPQK ANTSEIGTKWQVRGSSRVNVM HEVNTPHQCVRFRPARSAPGCC QSPCHRSGKHMQYGLSKCQPG QYNSVKSGERVNGVTFQ
15661	46029	A	15752	421	441	P*ARMPSPLGPPCLPVMDPETT LEEPETARLRFRGFCYQEVAGP REALARLRELCCQWLQPEAHS KEQMLEMLVLEQLGLTPTEIH AWVRGQRPGSPPEAAALIEGLQ HDPGQLLG
15662	46030	A	15753	1	346	PAFGGSAPSERLELHVDGPPPRP QAPGD/CGVGRSWRAEM/HDR ALRGTNPRRHLSCCARARRRP *RRSAPPGPRANPS*SSWGPSTP GNYRCRYRSWVPHTFKSELND PVELLVA

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15663	46031	A	15754	1	2091	MKPGLRRRRGRGLGCGLGQPQL RATWSGAVLAGRDAVLRCEGP IPDVTFELLREGETKAVKTVRT PGAGAKLELIFVGPQHAGNYRC RYRSLVAHTFESELSDPVELLV AVAATLNIHLRLVHMLHIPAAG EGSFREGTHFLKPSPVKMPLVF RVGRRRVLNQGPQGVPIPIPRSC EHLNWQKGLCGVTKCAAPLLR GPPCPAVLRKEIPFVSLKPGLMS SKASEAEPLGPRLGSHQSTAAA LGPRYNGSADAIRPHTAWAVIQ TTISRFTWSLTQVNVPSRTVSLA VRRDRYMTSRTTTNPEEGCRG TFWARRNGCSPSACAVAEAL EACLADVRYPVVALSCGRLQK RRDFRETNAAMSNKEKSLASA RFFVEVQVTLGALCTVQATGQ SMLVFSTTQMSSYSEKFLTSKH ASLSPRLQLADRWRDQGMKW QSPQWGELRPAASHTAEQEPGL AASKAFRDLQNLNSAFLSLTS LSAGHQCISAIVMMMSKKEITP QGQLAAASFGELQPVALKCPW LKSQHVESWLARPEAHSKEQML EMLVLEQFLGTLPPEIQAWVRG QRPGSPPEAAALVEGLQHDPG QLLGWITAHVLKQEVLPAAQK TEEPLGSPHPSGTVESPGEGPQD TRIEGSVQLSCSVKEEPNVDGQ EVAPSSPPLAAQSPEGNHGHQE PASTSFHPPRIQVSSPKWEV
15664	46032	A	15755	1	208	
15665	46033	A	15756	3	373	EVAQMPRVSTPATLPSLPQPAL MAPWTVPYDQLMEEKARAR YAGTIQKWTAALQPLSRTSLK DSGEGTSKWGRSVDTTQPLSPA IPVIFQ*AHEQSGHSGMDGGYA WALQHGLALTNTDLA
15666	46034	A	15757	3	266	
15667	46035	A	15758	3	587	YPASAGLMLQNFVGIVGLRYHF AIHSPAAGLLDGLHAVAIIQG ITKIETTPNHQRAPAHWTLTQ QAHLPSPPLHFNLP TLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGLIVHEILEE VLQAEGDFQPFRVTVHWGKG NDQTFRGLLDTGSELTLPIDP KHHYGPPVKVGIA YGAQLL
15668	46036	A	15759	1	1566	

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15669	46037	A	15760	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRILRT ESHPSPHTCSSWRHLLSSCPYT GMSFPISSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTWLNCHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHHP KVDSCSTTAPF*DIPEGQQL
15670	46038	A	15761	349	718	AGPEGTTTAECP/I/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLLSWKWQSASAKTTIHGLT KCLIHHDIPHSIASD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSFNP
15671	46039	A	15762	143	469	ARIQ/GSRNQGVVEVAPLTVT PSDPLANVLLPVPATLPSAGLEI LVPEEGRLLPPGDTTMMPLNWN LRLPHGHFGLLLPLNQAKKG VAVLGGVIALDCQDEISLLLYK
15672	46040	A	15763	1	2712	
15673	46041	A	15764	3	578	LKSRQAPRCEVESVTHEEVYYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLNCHNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLLPALMASW/ENSP*SIDRG RED*SLVHKWFCTICRHHHPKVD SCSTTAPF*DIPEGQQL
15674	46042	A	15765	1	461	MTVDYRKFNQVVTMAA/AVP DAVSLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAHTAASRIR VSCLPEQKSHEQTLPEQVP
15675	46043	A	15766	1	1371	
15676	46044	B	15767	54	864	

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15677	46045	A	15768	2	1148	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PWFHCLSKLIHLLIPGMQPLT WQ/HALFSIPVHKGYNLSALC/ Q*CYLERT*LLFTSTRYHTGPLH **HYADWQCARSRKQTGLTG KGQRFVLTERDTYYGFTYPAH NAAKTTIHGCTECLTHPHVIPH SIASEQDTHFTAKEVWQWAHG NGIHWSYHVPHPHPEIARLIEWW NGLLSQVQCHLGDNTLQGW GKVLQKAVYALNQYPIYGTVS PIARIHGSRNQGVVEVEAPLTIT PSDPLAKCLFPVPKTLCAACLE VLLPGGGMLPPGDTTTIPLNRK LRFPLEHFGLL
15678	46046	A	15769	917	2352	DTISHQLEWRSLKSQETTGAIEI SATIKDLKGAGVVIPTTSLFNSS VWPVQKTDKSWRMTVDYCKL NQVLTPNAAA VPDVVPLLEQIN TSPGTWYAAIDLANAIFSIPVHK AQKQKQAFSWQGGQYTFTVLP QGYISSALCHNLIRRDLDGFL LQNTLLVHYVDDIMLIGSSEQE VANALDLLVRHLCVRGWEISPT KIQGPSTLVKFLGVQWCGACR DILSKVKDKLLHLAPPTTKKEA QRLVGLFGFWRQHHPHGLGGLLQ PLYLVIQKAAIFEWNPPEKVL QKVQAAVQAALPLGPYDPTDPI MLEVLVADRDAVWSLWQALI GESQRPVGFWSMALPSSADN YSPFERQLFACSWALVETECLT MGHQVTMQPELPIMNWMLSDP SSHKVVAQQAQH/QEVAQMPRV STPATLPSLPQPALMAPWTVPY DQLMEEKARARYAGTIQKWT AAALQPLSRTSLKDSGEGTSKW
15679	46047	A	15770	1	861	
15680	46048	A	15771	5	90	
15681	46049	A	15772	1	324	MVQEASEVIGQLQSSAAK*AM HWAGFSYLTKKSLNAN
15682	46050	C	15773	1	726	
15683	46051	A	15774	364	543	ARGAARSMKHTSGDETKRQKL D*VRLTGIRASREEVTKEAGPR KRIMCSGMDELNGGLQL
15684	46052	B	15775	1	1056	
15685	46053	A	15776	1	282	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15686	46054	A	15777	167	954	KRVTSKCLKSPRRGSPHCSRNPV LLRGIGRYSRSAMYSRKAMYK\ RKYSAAKSKVEKKKKEKVLAT VTKPVGGDKNGGTRVVKLRK MPRYYPTEDEVPRKLLSHGKKP FSQHVRKLRSITPGTILILTGR HRGKRVVFLKQLASGLLLVTG PLVLNRVPLRRTHQKFVIAFTF KIDISNVKIPKHLTDAYFKKKK LRKPRHQEGEIFDTEKEKYEITE QRKIDQKAVDSQILPKIKAIPQL QGYLRSVFALTNGIYPHKLVF
15687	46055	A	15778	1054	1403	MVEGGILRVNTSVECKTGPF SPHILWREPFCSVQVGKKKKEK VLATVTKPVGGDKNGGTRVVK LRKMPRYYPTEDEVPRKLLSHG KKPFQHVRLRPSITPGTILIL TGRHRG
15688	46056	A	15779	1	388	
15689	46057	A	15780	1	456	MKLPEEGSLSDICCSAIFAVLQP LLVIPRETGSGVDLQQTPTDLQ LRQTESQIMSELPFTVASKRIKY LGIQLTKDVKDLFKEIYKPLLSE IKEDTNKWKSI PCSWLGRINIVK MAILPKVTYIFNAIHIKLPMTL EKT\FIWNRKRACI
15690	46058	A	15781	1	504	
15691	46059	A	15782	1	1836	

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15692	46060	A	15783	285	1949	RGEMNSRGRNNLSIINKTDFPFI ALNAHKRKHRSKIDTLTSQK ELEKQEQTNSKASRSHEITKIRA ELKEIETHNKPFFKISESR\SWFF IFYFIERINKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTEIQT TIREYYKHL YANKLENLEEMD KFLDTYTL PRLNQEEVESLNRPI TGSEIEAIINSLPTKRSPGPDGFT AEFYQRLKQCRKAHLDPVSLT HRSGPGAREDRLSDSGDASRGC WNLSQHAAVTSPSEERRIRTL SCRSVGVCRRSTDPVCLGISSG GCRTVNIGEQQMLLPDRSSGSF VSEGYRPCVSAPTGGCPPVRC LMINTVSLIGVKFTEVFDSINISE HLELACLQDHNSLLAREQNWT EDEFDELTEVGFRRWVITNSSE LKEEVQTHCKEVKNLETRLDE WLTRITNAEKSLKDLMEKTM AGELRDACTRFSSRFNQL EERV TEIEDQMNMKQEEKFREKRIK RNEQSLQEIW DYVKRPNLHWL GVPESDRENGTKLENTLQDIIQE NFPNLARQTNIQIQEMQRMP
15693	46061	B	15784	596	1414	

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15694	46062	A	15785	610	2986	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKDQRTSSPTKDCSSSPATE QRWMENDFDELTEV/VLQKPG RDTTKQKEKFRPISLMNIDVKI LNKILANRIQQHIKKLIHHDQV GFISGMQGWFNICKSINVHHIN RTNDKNHMIISIDAEKAFDKIQ QPFMLKTLKKLGIDGYLKIIRA IYDKSTASIILNGQKLEAFPLKD RTRQGCPLSPLLFNIALEVLARA IRQEKDIKCIQLGKEKVRLSLFA EDMIVYLENPIVSAPNLFKLISN FSKVSGYKINVQKSQVFLYINN RQRESQIMNEFPFTIARRRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNMPCSWIGRINIM KMAILAKVIYRFNAIPIKLPMTF FTELEK\TTLKCI*NQKRAHIAK PILSQKNKAGGITLPDFKLHYK AAVTKTAWYQYQNRDIDQRN RTEPTEIMLHIYNHLIFDKPDKN KKWGNDSL FNKWCWENWLAI CRKLKRD PFLTPYTKINSRWE DLNIRPETIKTLEENLGNTIQDIA MGKDFMSKTPKAMATKAKIDK WDLIKLKNFCTAKETTIRVNRQ PTEWEKIFAIYSSDKGIISRIYNE LKQIYKKK\NNPIKKWAKDINR HFSKEDIQAASKHVKKHSTSRIF MQIKTTLGYHLTPVRMATIKKS KNNRCWCGCGEKGTLIHCW/M
15695	46063	A	15786	1	906	MVNQKRYHIPGGTAEISGTIKK LKNAGVVIPTTSPLNSPIWPVQ KTDGSRWMTMDYHKL NQVVT PIAVAVPYVVALLEQINTFSCT WYAAIDLANTFFSFSVHKA/HK K*FAFSRQGGQYTFTVHPYDN YSPFERQLLACYWASVETEHLT MGYQVTIQLELPIMNWVLS DPS SHKLGHAKQHSIIKWKWYIRD RARAGPEGTARIHRSRNQGV EV EVAPLTITPSDPLARFLLPVPTIL HSAGLEVLVPEGGTLPLGDTTT IPFNWKLRLPPGHFRLLLPLNQ QAKKGVTVFAGVIEAIKMK

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15696	46064	A	15787	1	909	MVLEVSVSDRDAVWRLWRAP GESQQRSLGFWSKVLPSADN YFPFERQLLACYWALLETDRLT VGHQVTLQPELPIMNWWLSDPS SHKVGHVHQHSIIKWKWYIRD QTRAGPEGTTTPVITQ/WDAHE QSGLSGRDG\KGQRFVLTGVDT YSGYWFAYPAHNASAKTSIYG FTECLIHCHGIPHSIASDQGTFLT AKEVWQWAHAHGIHWSYHIP HHPIAAGLIEWWNGLLKSQQLQ CQLGDNTLQGWGKDLQKAMY SLNQRLIYSTVSPISRIHGSRNQ RVEVEVAPLTITLSDPLAKFFFL
15697	46065	A	15788	1	754	MQNNVDSFQEPPTPLFSSRPIA RLKSKQAPRGEAESVTHEELES RLRAKTSKISSLTFRRGWGKV LQKAMYALNQHPHYGTVPPIPRI DGSRNQGVKVAPLTITLSDP LAKFLLPVLSALHSAGLEVLVP EGGILPPGAGDMRMIQLNWK SLPPGYFGLLLPLSQQTCKGVT DLGGVIDLDYQDEISLLFHIKV NGKLQQPNPDRTTSGDPSPGM KVWVTPPGK/EPQPAEGLAEGK GNTEWVVEE
15698	46066	A	15789	686	1506	VETVHMLQIGEFKKTDVS/WK TVDYHKLNQVVTPTAAAVPDV VSLLEQINTYPGTWYAVIDLEN AFFSVPVHNAHQKGFASWQG QQYTFTVLPQGYINSPTLCHNLI RRDPGHFSYPQDITLVHYIDDI MLIGSSEKEVANTLDLLPIYQV TLKAANYEWGPEQEKAQQV QAAVQAALPLGQHNAPDPTVL EVSVADRDAIWNLWQAPIARIH GSRNQGVVEVAPLTITPSDPL AKFLPPVPATFCSAGLEVLVPE GGMLPPGEIETIPLK
15699	46067	A	15790	422	537	VNQFGVIFCAAIIIN*YECLKQSF KTQTDYFPSPLNTSQ
15700	46068	B	15791	1	519	

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15701	46069	A	15792	53	753	SLGTGTLRVLLGTAEQMLQFS HLYADYGGKPALEDINLTLESG ELLVVLG/PSGCGKTTLLNLIAG FVPYQHGSIQLAGKRIECPGAE RGVVFQNEGLLPWRNVQDTVA FGLQLAGIKKMQRLLKFAHQML KKVGLEGADKRYIWQLSGGQR QRVGIARALANPQLLLLDPEF GALDAFTRDQMOTLLNLWQE TGKQVLLITHDIEEAVFMATEL VLLSSAP\GRVLERLPHI
15702	46070	A	15793	2348	2760	LWLVINCIPAFLLMLRWLPR LKPLSQLSVPTYRLPSVPFLKPT GMESPEAISRVSGKGIL*RDSDA YSVSLSYHYPHRHPSSIIVDHRS SIDP*PIVDHSSSIKRSCTFPLG YWEVVFVQLTFGQQRQASGILQ
15703	46071	A	15794	2	415	HPGLETDLSPAPALEPQQGQ GRPSIQGAPRGSFTRIEAGTPHV PAPCPAAQRNQGWLGVGAWL GFMAP*EQSVASSWK*PLMKS QYSREVISHLPLVPMQQGRPVM TQSMWGWLVWFPALFLVQIGH LVMSSGHS
15704	46072	A	15795	428	885	GISMKLSRISAI/NWNKISDDKD LEVWNR/LTSNFWLPEKVPLSN DIGAWQTLTVVEQQLTMRVFT GLTLVDTLQNVIGAPSLMPDAL TPHEEAGLSNISFMEAGHARSY SSIFSTLCQTKDVEDAAAWSEE NAPLQRKAQIIQQHYRGDDPLK K
15705	46073	A	15796	1	1125	
15706	46074	A	15797	57	303	SHKHYADALLYPAPDVCTAC* LLRGNRRDQSKSITAKRHATA HFRFVRMVRHGNH/SRLRPDSF R*PVSPDR*PPLRAAHFR
15707	46075	A	15798	3	430	
15708	46076	B	15799	1	1338	
15709	46077	A	15800	380	1043	WTRWRASAADNLAHGRWGEQ KLVVTTGASGAPDRQAARCGC IWRKISWYRSKSGKHPLTPKEV EKTGWGLKIRGMGKQQAIEV KEAARILELDGLLKRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDAKL RVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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15710	46078	A	15801	1	900	MAAIAFLITWFLSHDKKRIRILK RLSGGGMMADEFPGGAVVFTV LNLTHWLEDWGLPVHWRSSC MPSGLEYLIVLIFKGVIVAVHLL IVDALNLIRRIHAV/QGSPCVET CQHALDQLIMHSQPTHAVAVF DDENRSSGWRHQGLPDYKAGR PPMPEELHDEMPALRAAFE\QR GVPCWSTSGNEADDLAATLAV KVTQAGHQATIVSTDKGYCQL LSPTLRIRDYFQKRWLDAPFID KEFGVQPQQLPDYWGLAGISS KVPGVAGIGPKSATQLLVEFQS LDGIYENLDAVAEKWRHKL
15711	46079	A	15802	1	1350	
15712	46080	A	15803	1618	2082	
15713	46081	A	15804	1	803	MINLIGSDVNYDWLKLPLVHL HWYDKEVRPGRKVGHNLNLTDS DTSRLTATLEALIPLLPPEYASG VIWAQSLIRCVRKHRIHCAPIAG CGTGCRPDKTRQASHQAQMSN AYDYSEIQGIGKQKAANRVAEP RTYHSFASITDRRADLLKPGNH AQDGRLTAARRADKHDELFIG NFQKADNRGQVSDESVEGNSNC APVKPAPIPTERIPLALMASMPA CASSMPIHACGGTPSPAQAARK ISGSGFEFLSWEASAQKVKNR SSSAKIVGAFRETEASPTICC ARRSASKERMPG*ARADPHRA HTAGVNGVNARLRIFNADTCL RRHAQPCTGGEKDFRVRFRVF KLGSIRAEGEKLAQLQRR

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15714	46082	A	15805	1	1655	MRGHNWIDMDQARQQSTPHT DRKICHKNDRPRTTPLRKIDAH PHTLILPAESTLSTTKYKLRL LVENTNKDKSAVSVVFRGSVL HQQAAANFPNMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAIAAVRG LGSMIAVEFNDPQTGEPSAAIA QKIQQRALAQGLLLLTGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLLPVVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLENVRFNKGEKKD DETLSKKYAAALCDVFVMDAFG TAHLRAGFLTGTGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGGSKVSTKLTVLDLSK IADQLIVGGCIANTFIAAQGHD VGKSLYEADLVDEAKRLLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINA VFSYVTNVWGWA FWE WYMVVMLFGWFWLVFGPYAK KRLGNEPPEFSTASWIFMMFAL
15715	46083	A	15806	1	1359	
15716	46084	A	15807	670	1008	
15717	46085	A	15808	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPELPLKLLGRPTEGE YNEEF/SLLPVVNYLKDKLSNP V/RLDGVDVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLSK /IADQLIVGGCIANTFI/AAQGHD VGKSLYEADLV/DEAKRLLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSKISYISTGGGAFLEL WKVKYLPVAMLEERG
15718	46086	A	15809	465	888	RGLVALSSERRCRLRRRNHPES GTRSPDPAGAASLSRRFFYAPP GTPETGCGYSSRSRSQRKR/LST WRCNS*ETPKSPPKACCRPARIP APRSSVKKASACGPAAVMKK RCRKASITPISKITCAIHRMRRW TCTKRAAF
15719	46087	A	15810	417	707	IQIHERSWRYLHWWSSVRRRA A*YGAPL*RDGIQRGTRRISQV YQ*SSVRQLRRDASASGSAPRV CREYAAACYLRHEHWSGDAVS PTPRMLKSFV
15720	46088	B	15811	1	4350	

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15721	46089	B	15812	1	2862	
15722	46090	A	15813	1	1471	MLHSRGFLAEVFGILARHNISV DLITTSEVSVALTLDTTGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSGIGAQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQKGGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGGL TRSMEYDAAGR VIRLTSNGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHA YNAQGL ANRCIPDSLPAVEWLTYGSGYL AGMKLGDTPLVEYTRDRLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHANFAL
15723	46091	A	15814	1	1367	MSKLLERFRYFKQKGETFADG HGQVMHSNRDWEDSYRQRWQ FDKIVRSTHGVNCTGSCSWKIY VKNGLV TWEIQQTDYPRTRPD LPNHEPRGCPRGASYSWYLYSA NRLKYPLIRKRLIELWREALKQ HSDPAADNDLIARFQSFTNQPF ANRLTGNDRARFNLT FIVNNQH ATAITTTGTFLPEWSTTFIITLIL QSKVQAIDLTKEAIVTVGCNTIS TTVHEVVSASIGIATKFWQHIGP CFYVIYDTVVTTIVESRTTEYSP DVVTGLITRITTPDGRASAFYN NHHSQLTSATGPDGLEIRREYD EWGRLIQETAPDGDITRYRYDN PHSDLPCATEDATGSRKTM TW SRYGQLLSFTDCSGYVTRYDH DRFGQVTAVHREEGLSQYRAY DSRGQLIAVKDTQGHETRYEY NAA/GDIRQCESDLQSPSCSQYR AIDGESLSETARYSVHQ

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15724	46092	A	15815	357	1733	TADSPETLRCQTSGENARGAGT VERAGKSLWRSR*SHRP*STR TGDHCCQIQTNFSLFN*QHPGQH R\YSGGTAINQSLITHDPEYPEN LPAAPLVRYGWTPRGELAVVY DRSGKQVRSFTYDDKYRGRMV AHRHTGRPEIRYRYDS DGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKRVVK KEHADGSVTQSQF DAVGRLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGP DGLELRREYDELGR LIQET APDGDITRYRYDNPHSDLPCAT EDATGSRKTM TWSRYGQLLSF TDCSGYVTRYDHDRFGQMTAV HREERLSQYRAFD RRGTVIAVK ETQGLETGF EYHFPVPDGVIA P KG/SRNGNSQSVGKRRSTEDIR G*TRWRGYTADRRAAKTHARV E*HLRARPRVCALFFPKQCERH
15725	46093	A	15816	1595	3228	DNNAKLFRAGQMKVLKPYVDS GKIKVVG DQWVDGWLPENAL KIMENALTANNKIDAVVASN DATAGGAIQALSAQGLSGKVAI SGQDADLAGIKRIAAGTQTMT VYKPITLLANTAAEIAVELGNG QEPKADTTLNGLKDVPSRLLT PIDVNKNNIKDTNLPAAPLVRY GWTPRGELAVVYDRSGKQVRT FTYDDKYRGRMVAHRHTGRPE IRYRYDS DGRVTEQLNPAGLSY TYQYEKDRITITDSLDRREVLH TQGEAGLKRVVKEHADGSVT QSQF DAVGRLRAQTDAAGRTT EYSPDVVTGLITRITTPDGRASA FYNNHHNQLTSATGP DGLELR REYDELGR LIQETAPDGDITRY RYDNPHSDLPCATEDATGSRKT MTWSRYGQLLSFTDCSGYVTR YDHDRFGQMTAVHRIEGLASQ YRAYDSRGQLIAVKDTQGHET RYEYNIAGDLTAVIAPDGSRNG TQYDAWGKAVRTTQGGLTRS MEYDAAGRVIRLTSENGSH TTF RYDVLEQYCGQVIKAHAVSRF
15726	46094	A	15817	1	627	
15727	46095	A	15818	701	895	

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15728	46096	A	15819	1412	1705	LASISTSCAPPKVNCGVMAIFLA SDSRLWSGLRAQATSRSTLSLM TRSGWLAIQ*NALRSWLASHE TKRPPSTLGGNTVPS*ALRLGIL ASSRILL
15729	46097	A	15820	344	547	
15730	46098	A	15821	1	1518	
15731	46099	A	15822	1693	2455	VLA AFTRSKORYGAPRLTDEL R AQGYPFNVKTVAASMRRQGLR AKASRKFSVSYRAHGLPVSEN LLEQDFYASSPNQKWAGDITYL RTDEGWLYLAVVIDLWSRAMA LLRRKSPGNVIVHTDRGGQYCS ADYQAQLKRHNLRGMSAKG CCYDNACVESFFHSLKVECIHG EHFISREIMRATVFIISNVITIGG GGTVAARGGVP*AVKSNVNDV RRNCLARSSNNGWIFPPVVVNG WRQQALTIVAGICC
15732	46100	B	15823	1	1407	
15733	46101	A	15824	1	3252	
15734	46102	A	15825	1	2409	
15735	46103	B	15826	1	2802	
15736	46104	A	15827	1715	1824	
15737	46105	A	15828	410	720	PGSRAVIGWSMSPRMTAHWPA MPCRWRCGGVRTYAPEPTG*R RWLQNCSSACSS**LRKTSRKNR TT*RTPARSSSAPPLMLKQPFTR QWPLNTPWKPPRLSPS
15738	46106	A	15829	905	1008	SCDSYRLSSRAAAVTPMRSASF RASGFLLVILFVCRVSVVGCVRV LAWSGGSVFRRGVPLAWTVLR WVRRRCGCGVGRCRGLSAVV YPSGIITVDSARSWRIMGRSGSP LA\TVGLAGCWSQPRL*TDAFS KLQGFRVFTGDTICM
15739	46107	B	15830	1	3148	
15740	46108	A	15831	1896	2062	SVCYPGRN*IPSG*N*PRIWSDP VQRRERAGKKWLHENPGWRK **PDYHYRSEAD

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15741	46109	A	15832	1	1456	MSTEIARLKRQLADGMKSWLS SKRPRHTSRAPEMKYVFIEKHQ AEFASKQCAACSGWPATAGNV VSAADKDKHASAVPPHCDSVV LAAFTRSKQRLPLNVKTVAASL RRQGLRARPPGSSARSATAHTA CLVRKSVGAGFLRQWPEPKWA GDITYLRTDEGWLYLAVVIDL WSRAVIGWSMSPRMTAQLACD ALQMALWRRKKPRNVIVHTDR GGQFGDRWK/ALANALNIPLDQ LSARISANPKGGFIYLAREVNP DMADYIKKLKLPGIHVREESRR YYPSGEVTAHLIGFTNVDSQGI EGVEKSFDKWL TGQPGERIVRK DRYGRVIEDISSTDSQAHNLA LSIDERLQALVYRELNNVAFN KAESGSAVLVDVNTGEVLAMA NSPSYNPNLSGTPKEAMRNRT ITDVFEPGSTVKPMVVM TALQR GVVRENSVLNTIPYRINGHEIKD VARITTEEDFNHASAARFVCAA AERALQNHH
15742	46110	A	15833	2	929	
15743	46111	A	15834	1	472	
15744	46112	A	15835	1	513	
15745	46113	A	15836	1	254	CDNLKTCHTSHGSVMAETAVI NHKKRKNSPRIVQSNDLTGAA YLSLRDQKRV/LRYEPVSQFRLS ETQKHQSVCHAFIRIPVSVS

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15746	46114	A	15837	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDDEQMAALSRLG NDYRPTSAYERGQRYASRLQN EFAGNISALADAECDNLKTCHT SHGSVMAETAVINHKKRKNP RIVQSNDLTEAAYSLSRDQKRM LYLFVDQIRKSDGTLQEHGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIK/RPSRGLYSV HINPYLIPFFIGLQNRFTQFRLS ETKEITNPYAMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPDFRRRFLQGFCRFRNH HQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVTYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPHMLRLAIE TVAHDYDVVIDSAPNLGIGTIN VCAADVLIVPTPAELFDYTSA LQFFDMLRDLLKNVDLKGNSN GSQSPWMEEQIRDAWGSMLVK NVVRETDEVGKGQIRMRTVFE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLRK
15747	46115	B	15838	1	1734	
15748	46116	A	15839	1	971	
15749	46117	A	15840	1	1143	
15750	46118	A	15841	1	556	
15751	46119	B	15842	8	1000	
15752	46120	A	15843	1	1169	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGYRTGD FQLHTNVNDGAEFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPEAGVKLNLSALCDN LKTCHTSHGSVMAETAVINH KRKNSPRIVQSNDLTEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIKRAH SPSRGLYSVHINPYLIPFFIGLQ NRFTQFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQ/TYQRMPDFRRRFLQ EEFESLNRQITGSEIVAMINSLST KKSPGPDGFTAIFYQ
15753	46121	A	15844	1	1509	

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15754	46122	A	15845	1	558	
15755	46123	A	15846	1	1773	
15756	46124	A	15847	1	2256	
15757	46125	A	15848	1	812	MEVLASWATFTLGQTEQHVD WISAGAAPQGPIVKQLPSPVPPT EQLEQEKPVITIGSAPSTPNKLLL SHSNCQLPRPLRSITNISACFSLE LAIDHRGFPHSPGARSLYSNSVF GTYQLCDLCLNLKTCHTSHGS VMAETAVINHKKRKNSPLIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPW/FIKRSPE*RRGKFPFT QMGQD
15758	46126	A	15849	1	1773	
15759	46127	B	15850	1	1755	
15760	46128	A	15851	1	726	MPASGNENDLNMPSGTIEIFVR CYVEVERIMSAWTEQPNEHRT MMWSVLLQPCDNLKTCHTSHG SVMAETAVINHKKRKNSPRIVQ SNDLTEAAYSLSRDQKRMLYL FVDQIRKSDGTLQEHDGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRG/LYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKS
15761	46129	B	15852	356	671	
15762	46130	A	15853	1	2121	
15763	46131	B	15854	721	2739	
15764	46132	A	15855	1	5828	MQEQQQASSLIRSGNGRLPGSG AQRTPCHIRRDGSQRRVCDDCK QQWWKAKYNIPSGLHACTATL EETHILDSGAHVQVFYKGQLH VMRVPCTDYFDTQKNPNLSHL HGSVMAETAVINHKKRKNSPRI VQSNDLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHDGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVFYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQN
15765	46133	B	15856	537	1318	
15766	46134	B	15857	1	411	
15767	46135	A	15858	1	1356	

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15768	46136	A	15859	1	1215	MPYDRPFTVMAAFPLCPACDK EYRDPLDRRFHAQPVACPECGP HLEWLKMGKIVAIGKIGGFHLA CDARNSNAVATLRARKHRPAK PLAVMLPVADGLPDAARQLLT TPAAPIVLVDDKYVPELCDDIA PDLNEVGVMPLPANPLQHLLQ ELQCPLVMTSGNLSGKPPAISN EQALADLQGIADGFLIHNRDIV QRMDDSVVRE\RRNAAPF/AGA VLSQHLGDLSDDGIQMQWRER YSLMQNIYDFTPPQYVVHDAH GYVSSQWAREMNLPTQTVLHH HAHAAACLAHQWPLDGGDVI ALTLDGIAQPDERSRSEDVDRA HQRGHERDRRRRRSGTSHLTR VDLKEDGKGLKIVRQSLPYGTA SGTHGLYFCAYCARLHNIEQQL LSMFGDTDGKRDAMLRSPNR
15769	46137	B	15860	74	2050	
15770	46138	A	15861	2	703	LQARFPLSWRNFPIFACYAGL FCLSASHIYP/DHLCPSVVPRAFA GPRHRRHLLVLRGCGLRH/TK RPGPGPGPARALAIWPPDPGC* RCRRPSLPASSLRSSATPTCTST QPALEWCVAVYAICFILAAIAIL LNLGECTNVLPPIFPSFLSALAL LSVLLYATALVLWPLYQFDEK YGGQPRRSRDVSCSRRHAYYV GAWDRRLAEAILTAINLLTYVA DLMHSAHLDFSKV
15771	46139	A	15862	1	849	MAQPLAKQWTPVSPRALLVSIS SMPPRPAADVTVCRRHNCTLRE LLYGFAAAAQQLNLHGDVCN DGDG/VEVRLREDPETFLVQLY/ QHCPLA\RTGGTMNTQIVPDA ATCPASLSEMNTPGERRYRYPF INCTHYGPSFPIIRAMPYDRPFT VMAAFPLCPAC/DKEYRDPLDR RFHAQP/VACPECGPHLE/WGIG GFHLAC/DARNSNAVATLRARK H/RPAKPLAVMLPVADGLPD/A ARQLLTTPAGAGLWLGNGYP RAPDNANSTAMSCASHAHSFG GGHPRGR
15772	46140	B	15863	1	2688	
15773	46141	A	15864	1	1578	

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15774	46142	A	15865	1	877	MQAAHRLRPAYRIKTGKPPAL ADYHPAYQEMLSRKQDRVIDQ IDFGIKDTVEILHMGQIQSMGRE FALSRLFSIHGHNVHGNESPEM GPERRSGFYDEWSPERIIQYYRP AREQLMNELVQILKNTRQHLM TGVSHMIPFVVS GGILLAVSVM LYGKGAVPDAVADPNLKKLFD NGVAGLTLMVPFLAAYIGYSIA ERSALAPCAIGAWVGN SFGAGF FGALIDAFPR LSEEINPALPEAK VMACLEAVARQDNVDSPQELP PTPLFASRPITRLKSWWAPGGE VESGTHKK
15775	46143	A	15866	3	423	
15776	46144	A	15867	633	771	NNRSHPALCTNRPPRTRLVFYP LLAPNA*LAALQK GWAYGAGH NA
15777	46145	A	15868	1	4014	
15778	46146	A	15869	1	180	SGHPFIPLKDLTQIAIGDVFNNN LILWANREIIHSVP*RY*HDANI QCFVVISSFVRSQQ
15779	46147	A	15870	815	1905	IFQEHIMDHLPMKFGPLAGLR VVFSEM/WRAEVIWIENVAWA DTIRVQPNYPQLSRRNLHALSL NIFKDEGRE AFLKLMETTDIFIE ASKGPAFARRGITDEVLWEDKP KL VIGHLSGFAHQVSQISTHQG SSNWVSPDQLQCNTQTNSPKQ LFSTHCMQCRPNSTTNSRQFQS NPVNHALNHQSKPHHPLVYAQ HKAKRAHRAKSITASRKQATT QQVGAPAGGHTHTSSSHPQTT KALEQVKHLTTRQAILSKAKPQ ATSPIPRDTGPLRGRQFHALNPS TTVIGQPANQRIGQHGHPPQFKP KTPFWPQPKEKVPNRQCTSKTY SNGEQNIPQTYAIRTKNRSTYPR NLKQQPLNPGKAKT
15780	46148	A	15871	1	361	QTTGISFQGRGAGPGVPTRTQ/ CLRCHGGRHG/HPSHLCKPNKG DPRKIRLKMSWR*PWFAIGPRD WSSSRPKPTSPRGSCRSFIEASK MSAPVVWSTKTHSSRSMLSFSL MEDFVTALSIL
15781	46149	A	15872	1	447	

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15782	46150	A	15873	1	1424	MLLEQLSQHKLDMIISDCPIDST QQEGLFSVRIGECGVSWCTNP PPEKPFPALEERRLLIPGRRSM LGRKLLNWFNSQGLNVEILGEF DDAALMKAFGAMHNAIFVAPT LYAYDFYADKTVVEIGRVENV MEEYHAIFAERMIQHPAVQRIC NTDYSALFSPAKLRRALYHPAS TELHPACGKDFRQLYRRIQNQI QRHALWHKIFDVEIPHPILIHAR VSANMPHTGCRIAIEWPGKVVE AILRLTNDAPYLPYGFNHNKSK MRSEGMNYPYQRQFMELALSNQ VLKCGEFTLNRRGKSPYFFNAG LFNTGRDLALLARFYAEALVDS GIEFDLLLAPAYKGIPIATTTAV ALAEHDDLDPYCFNRKEAKD HGEGGNLVGSALQGRVMLVD DVITAGTAIRESMEIIQANGATL AGVLISLDRQERGR*CDHRRNG DSRVDGDYSGQWRDACWRVD FARSSGTRARRDFGDSGS*A*L QLQSDLYHHPERPDCLPGREAG NGGTSGGG
15783	46151	B	15874	1	1086	
15784	46152	A	15875	484	729	CTQFRKTCFTCKASNGFCFATS CNLIYTSEIICRGPTG*HNLIASL LQRIDNLRKFIVIPTLKYLTRCR LDDNIMIFYAQGI
15785	46153	A	15876	1717	1971	PANAWAEMWEYSAWQRRMYS MG*TSKVVVHPGATDRW*NTN GCYRIFWIAAPFVPAAVIHGNIL PTHGACVHKGFGRAPAGAAVE
15786	46154	B	15877	1	765	
15787	46155	A	15878	103	823	VPACAGLKKEARSLLASPPRLL NTKLQASCRALESPPIQSRQTTG ISFQGRGGAGPGVPTRTQ/CLRC HGGRHG/HPSHLCKPNKGDPRK IRLKMSWR*PWFAIGPRDWSSS RPRPTSPRGSCRSFIEASKMSAP VVWSTKTHSSRSMLEFSLMEM PARMPITSSMPSTPLRQGSVKFE DFVTALSILLRGTVHEKLRWTF NLYDINKDGYINQEEMMDIVK AIYDMMGKYTPVLKEDTPRQ

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15788	46156	A	15879	1	2926	MVKDASQSQASLGLDAFLPAS GVQYTHERSPDSPKLSQECPSG VVNEDTFKQIYAQFFPHGGLMS ENGTGKKASVFGSTGSGALLLE EGERRREQPLIEMRKPPHVLIN YQAKVGGNSIPSPSLCKPAFPPL PSWAVDLASARQKEDASRLQ NKEEDFYTSQPGFPALALGCCL RVNLLLGHGRGISAGSSYPITST PCHLCKLGQEVFAKPLNLQDQ CQQNLVMQVLKLVNCLNDFD IGSSADESADDLCTV
15789	46157	A	15880	1	1521	
15790	46158	A	15881	1	1182	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAINSLPTKKSPGPD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASILIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAIEKAFDKIQQPF MLKTLNKLAAQNLLKLISNFKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR\PSEI TPHIYNYLIF
15791	46159	A	15882	1	690	
15792	46160	B	15883	1	458	
15793	46161	A	15884	1	719	
15794	46162	B	15885	1	3552	
15795	46163	A	15886	1	321	
15796	46164	A	15887	1	362	
15797	46165	B	15888	1	489	
15798	46166	B	15889	1	1660	

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15799	46167	A	15890	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLR SRCDQLEERVSAMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLRINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTETIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPIGTAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQC HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNAAAYL QLSDL*QT*EKHAMGK/EFPI**
15800	46168	A	15891	1	1177	
15801	46169	A	15892	1	3663	
15802	46170	A	15893	1	1995	
15803	46171	A	15894	1	4191	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSLQRLDLSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTYHNLWDTFKA VCRGK FIPLNAHKKRQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ

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15804	46172	A	15895	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRKKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGD TTDPTEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIIDAIEKAFDKI QQPFMLKTLNKLIGIDGTYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSQYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQK\ RARI AKAILSQKNEAGGITLP
15805	46173	A	15896	1	1740	
15806	46174	A	15897	1	880	
15807	46175	A	15898	1	2777	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCQLEERVSAMEDEMNEMK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIIQENFPNLASTLS HSGIKLEINSKRNPQNHANTWK LSNLLLNAHWVNNEIKMKVKN FFELNDNSDTIYQNFSD
15808	46176	A	15899	326	3096	QTERTSTPKTHLYVTIHKDQK*I KPQRRGKNRGEKLETLSRAP VLLQRNAVPPQQQRNKAGRRM TLTS*EKKSSDNQTTPSYRRKF KPMACKLKT/LRKKLDECITRIT NAEKCLMELMELKAKARELRE ECKSLRSQCQNLEER\INKIDRP LARLIK RKREKNQIDA IKIDKGD ITDPTEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA

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15809	46177	A	15900	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVVSAMED EMNEMKREGKFREKRIQRNEQ SLQEIWVYVVRPNLRLIGVPET LHPRDEAHLKNLIDAINKDKGD ITTDPTIEIQTITIREYYKHL YANK LENLEETDKFLDTYTL PRLNQE EVESLNR PITGSEIVAIINSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNREP NHE*TPIHNC FKENKI PRNPTYKGCEGPLQGELQTTAQ GNKRGYKQMEEHSMMLMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNP KPKEQSWRHHTT *LQTILQGYSNQNSMVLVPKQR YRSMEQN RALRNNAAYLQLSD L*QT*EKQEMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSQN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGENFHN LLI*QRANIQNLQ*TQTNLQ EKN KQPHQKVGKGHEQTLLKRRHL CSQKINHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS
15810	46178	A	15901	1	3285	
15811	46179	A	15902	1	3681	

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15812	46180	A	15903	1	1854	MKAEIKTFFETNENKDDTTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QKALQKINESRSWCFEKIHKID RPLARLIKKKREKNQIDAINKD KGDITDPTEIQTTIREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIINSL PTKNSPGPDGFTAIFYQRYKEE/ RENKIPRNPTYKGCGLPQGE QTTAQGNKRGYKQMEEHSM MGRKNQYRENGHTAQGNLQIQ CHPHQATNDFLHRIGKNYFKV HMEPKKSPHRQVNPKEQSW RHHTT*LQILQGYSNQNSMVL VPKQRYRSTEQNRALRNATY LQLSDL*QT*EKQAMEKGFPI** MVLGKLASHM*KAETGSLPYT LYKNQFKMD*RLKR*T*NHKN PRRKRHYHSGHRHGQGLHV* NTKSNGNKSQN*QMGSN*TKE LLHSKRNYHQSEQATYKMG FRNLLI*QRANIQLQ*TQTNLQ EKNKPPHQKVDEGHEQTLLK RHLCSQKTHEKMLITGHQRNA NQNHNEIPSHTS*NGNH*KVRK QQVLERMWRNRNTFTLLVGL* TSSTIVEVSVV
15813	46181	B	15904	1	2718	
15814	46182	A	15905	1896	5031	TWKGTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFFSAPHHTYSK TDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNPTQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDDTTYQNLWDT FKAVCRGKFIALYAHKRKQERS KIDTLTSQLEKEKQAQTHSKA SRRQEITKIRAELEIETQKTLAQ KINE\SRSWFF\ERJNKIDRPLAR LIKKKREKNQ
15815	46183	A	15906	4	133	

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15816	46184	A	15907	95	1875	PFFGRKNYRLPSKNMPRRCRSS PLPCSMKMTI*CVLTSTATITRL PAASAQW*LDGRTLVTKNsFR YLHTLHTMGPAPEPNLTILWSE ELPIAFKKYAAQVSIVTSSLQYE NDDL MRTDFNSDDYAIACCVS PMVIGKQM QFFGARANLAKTL LYAINGGVDEKLKIQVGPKTAP LMDDVLDYDKVMDSLDHFM WLAVQYISALNIIHYMHDKYSY EASLMALHDRDVYRTMACGIA GLSVATDSL SAIKYARVKPIRD ENGLAKDIQGTTEPQFRNSHSR TSGTVTL YLPVSTFVG TGFFIRV DPPKKPLKIRKIEFVEIYEPFSEG QAKAQADRCLSCGNPYCEWKC PVHNYIPNWLKLANEGRIFEAA ELSHQTNTLPEVCGRVCPQDRL CEGSCTLNDEFGAVTIGNIERYI NDKAFEMGWRPDMSGVKQTG KKVAIIGAGPAGLACADVLTRN GVKAVVFD RHPEIGLLTFGIP AFKLEKEVMTRRREIFTGMGIE FKLNTEVGRDPRASSFYEEKQL IARKALPFIDNKT TMAADSSST VMELLKLLQDRSGLTLLTNSAE AIHVLAQSEIKV VSTGGELNKN TSLQGRITKEIIRRYHVDIMWL PDEL RVEKGFSPDTLKLLEAKG QKVALKEAMGSTQSIMVGPDE RRTGFSYLRYQNL MIRVKF
15817	46185	B	15908	271	2118	
15818	46186	A	15909	597	743	
15819	46187	A	15910	573	1066	IRAQNGSPWLSFLVDSVCVLKA CVDAVMRAGICSVSYWQYQS GVGANSSALS GFSQGAIMMLES IKAEPGLASRVIAFNGRYSSLPE TASTATTIHLIHGGEDPVIDLAH AVAAQEALISAGGDVTL DIVED LGHAIDNRSMQFALDHLRYTIP KHYFDEALSG
15820	46188	A	15911	1	2652	
15821	46189	B	15912	1	1494	

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15822	46190	A	15913	1	1733	MGVGSKGTIFGSTTTQHGSFIPY LTGYLTYTHGHSPANPKPAVG GQILTAVLPAHDGYVSRIMTM NTQLTTPLTTATHTARQTASLIS VIGRQLRCFRHSSQPSVLTHVR DDSTQYAQLDMANGQPTSHGY EHWAQLMYATDRRYGRHMSD AARQGCSDTGIVKFSHPEPEMS VRKFTSARSGCVRSGAWNVTV SAQTRVSQALTTLRRVHKSPM NALTVPVMAEAPSQAHGRRQ TRRLSLHQTLLRLTTTPDWVGV IRRCVPVWGCLEHLDTAGFPL PNSHTMPLPIGWNDTRKRLHHS AHNGQHDVAQGRRVLGRKVG LTHPKVQQQLGVDGLSLFCVY LVWYIGLHLRRPFLAYTICPSL VYGADLRVIVRLFSDSHHFMAF GNPQPKHLDCQEYALFLLNSM PDNTAEHYRNKIAIYHLCLPED DRIKAINERMAIHQVSPFREEP VDCVLWVKYSQLMPNDYNPN NVAPPEKKLLQKSIEIDGFTQPI VVTHTDKNAMEIVDGFHRHEI GKG/SHASLKLRLRGYLPVTCL EGTRNQRIAATISHNRARGRHH ITAMSEVTPELRLLGW
15823	46191	B	15914	1	273	
15824	46192	B	15915	169	292	
15825	46193	A	15916	2	844	KGGVYKTSVSVHLAQDLALKG LRCLLWKGTPPQGTSPMVSRE GDPALHN*CKTQLLCLSYLEK DDVTYAIKPTCWPGLDIIPFLA LDRIETELMGKFDEGKLPTDPH LMLRLAIETVAHDYDVIVNDSA HNRGIGTINVVCAADVLIPTP VE\MFDYTSALQFFDMLRDLLK NA\DLKGFEPDVRI\FTKYSNSN GSQFP\WMEEPIPECLPKHGSKK NNVRNANEVGKQIRMRT\VF QAIDQRSSTGAWRNALSIEWPV CN\EIFDRLIKPRWEIR

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15826	46194	A	15917	1	681	MSIGGSGNSLCTRPKQQGGTG LKQYEVSVPGTLRCLACPACT LRKEHWIHFAPKSNYDSCRYIE EYFAYEASFMSVQLTELVIKSL EDLASLFMIHKKNPVSIPHTVW YADDIRRGEEAADVLGLTLYE LMLRAGEAAFQVCRSAYPDTR HWLVLCGHGNNGGDGYVVAR LAKAVGIDDTLLAQESDKPLPE EAPLAHEAWVNAGGEIHALNI GWPESEHLIV
15827	46195	A	15918	3	774	VKCSEKCLFLPLGQFSQFIQKLR VIFLDPLFIRKGGQVTPPTAFAM HLHEYISQGLESILGALDIEGSY DKQRTITIAATPSVGALVLPVIY RAIKTHYPQLLLRNPPISDAENQ LSQFQTDLIIDNMFCTNRTVQH HGLFAANMVLCIREGNPLLSLE DDREAIANAHAHVLLLPEEQNFS GLRQRVQEMFPGRQINFSTSYNI LTIAALVANSMDLAIIPSRLYNL FSRCWPLEKLPHPSLNEEQIDFS IHYNKFSLR
15828	46196	A	15919	1	741	MITVLLIATQFAPYFTEMALKG GFSFAGESAQISALSVGNMFGW SISELMSLGIIGVVAVGIVASV VLFLRVLSMSWLKEVIGTEKAV IAMCHLRALPGDPSFDAQLGM NWVIDKAWDDLMAQNGGVD AVMFSNEFSLPYLTKGLVPALV AREILVRGMYVRGRKMVAFLV CCVALAISAMYELIEWWAALA MGQGADDFLGTQGDQWDTQS/ GYVLRAAWRINDGDIPRSLSLP PATALWLDNRI
15829	46197	A	15920	1	678	MCHLRALPGDPSFDAQLGMN WVIDKAWDDLMAQNGGVDA VMFSNEFSLPYLTKVRPETTAA MARIIGQLMSDIRIPFGVNVLW DPVASFDLAMATGAKFIREIFT GAYASDFGVWDTNVGETIRHQ HRIGAGEVKTLFNIVPEAAVYL GNRDICSIKSTVFNNHPDALC VSGLTAGTRTDSALLKRVKETV PDTVVLAN TGVCLENVEEQLSI ADGCVTATTF
15830	46198	A	15921	624	734	TRTLRQIVDSRAIPFT*ERLHSP NQPKNPYPPESV

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15831	46199	A	15922	1	1923	MPFALGGGDLEETPRSDPGVTF ACSLAQPMRKPTGVLGNRFHD TQEPVPGGPGLRGFHLWHAPP LDRPAQFAAIRTDSELMSSANP KSFTASPLMTFTPARSRINYRY YPAGTRAKGENEAAFAARIHSF LPYRRPVFWATTMGQAKSAIK PMSTAVTRDASVFQTEYERSRF GARPWPLRKAPEAMGRGFHEI GVQCEAPTANTLEPSRRGAVM AAGLSFQRTPWREVLGRGEGSF LGAGSDPVLRLASLASTPFPGE KHVGSWGMGRIVLRSFALASSS LRHSGERIPGTVLPCDDIFACHQ RNYAEVFGIWRRTSSVLQPIEPV EPKCISQFLYIVLERRSSSSLISLS FNSASLCRSRHDARYVLQHALF CFTTNDFGQIFTTFFVSGGSGTR MSLPAEFGVIAQSDQKVLFIDA DLAVVIRITCLPSTSMWLKEVI GTEKAVI/AMCHLRALPGDPSF DAQ/LGMNWVIDKAWDDLMA LKMVRPETTAAMARI/IGQLMS DIRIPFGVNV/LWDPVASFDLA MATGAK/FIREIFTGAYASDFGV /WDTNVARSRRIASTVFRLAQ RCQPDASEYGFRMIARVFDVDR GDQNSEASLRVSGSIGPRTCAP VAWQSRRFPRLLDSDDVKRF QADTDSLVLH
15832	46200	A	15923	480	900	KTRYSCRGETWSNPQSSQLSAL IAAVRHPATSNVCRSARSCCIL RALRAIQFHTGCSAGNVAPEW CQFAPCWRKPLK\EESDSVFM VIKESLWQELADITDKTQLEWR EVFQDLNHHGVYHSGEVVGLG NLVCEKCHFH
15833	46201	A	15924	1	431	SKVFAVAGCVVLTMTMPDSCN SWQKCRNKT MNKIHSLALLV NLGIYGVAQAQEPDQTQAPGVS TITADEIRKNPVARDVSKIIRTM PGVNL TGNSTSGQRGNRQIDI RGMGPENTLIL/IDGKPVSSRNS VRQGYRLECGDG
15834	46202	B	15925	1	1352	

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15835	46203	A	15926	31	546	CYCILFVSFPSNRPLCCRSAGVC QRYTPDPFCLGITSRGCRRAKIT ACSFLWKLHPRGALARCPPELS CWRCLSTLLEGVSPSGGTGVR DPYEEAVCP LAELKCCAGRSA VLFRAGRQGRLLSLKLFQLPF SPCVLCLSKLVVSPNSTRTSKL LSIPYSRGPALLEVLS
15836	46204	A	15927	2	479	
15837	46205	A	15928	1082	1386	ADPFQEREAEKYANPIPSREFIL EHLTKREKPARDELA VELHIE GEEQLEGLRR/RQCYALPERLD LVKGTVIGHRDGYGFLRVEGR KDDL YLS\SEQMKT C
15838	46206	A	15929	3	401	
15839	46207	B	15930	1	3675	
15840	46208	A	15931	1749	1941	SQIPTSEAQVMSNLMGTNGVLR PARAYRNEAVLS*ALVSAMYS QTFRNASFGVPQMFTTSGV
15841	46209	A	15932	5	1465	KRSTTAQIRWISPLTSLKPRSKR QSKSCATKPKK WYVAAPCCWC SPTGISLKTRLPVPAPMAVGAIQ TRLVDQSLRCDANIIVETASAR DPHHFAVLLGFGATAIYPYLAY ETLGRDVDTHAIKDYRTVML NYRNGINKGLYKIMSKMGISTI ASYRCSKLFEAVGLHDDVVGL CFQGA VSRIGGASFEDFQQDLL NLSKRA WWCRLSATIGCCDC TRGYLGGARITGQISSITVWGVI IPVVGLCIIGWFWFSPTLYVDS WNP HHAPFFSAVGSSIAMTLW AFLGLESACANTDVVENPERN VPIAVLGGTLGAAVIYIVSTNVI AGIVPNMELANSTAPFGLAFAQ MFTPEVGKVIMAILMEMSCAGS ILGGKFTIAQVFKSSSDEGYFLT IFSRVTKVDAPVQGM LTIVIIQS ELALMTISPSLNSQLKEMVNLA VVTNIIPYILSMAALVIIQKVAN VPPSKAKVANFVAFVGARNSF
15842	46210	A	15933	1	3666	

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15843	46211	A	15934	979	1626	FSATITPPFIALQVRVRFHPLDAL LLFVLSLWLQLGLPDELSRFTPF CLALPIIALAWHYGWQGALIA LMNAIALIASQTGLLLGAGIQR LRELNQLSLQKELARNQHLEAERL LETEESVRRDVARELHDDIGQT ITAIRTQAGIVQRPAGHPLTDA GNGAGRARYCQPSRMANR*IS VKRKVVEHRCFVDFTFTNDG AVNVDRRAVRGVFIAAS
15844	46212	C	15935	1	666	
15845	46213	A	15936	1	1137	MGKFGHTEIGEVDVRDWS DAL QAKELQKLPGHSRKLEDPPTSL FMLLNPHSDQFSSNAHHHLHA TAIDDDYTDPTKSTYALGLNWS NSILGGFNISGYKTSYDGDND SSNLNINWNKAFKHATVSVNW QHQLSASENNEDDGLFYVNIS IPFGRSNTATLYTRHDDHKTHY GTGVMGVVSDMSYYVNAER DHDEPTLPAQNKAQEVLLDVV LDEAKIGVASMLGSRVRVKTW SWFADDKQEIRQGGFAGWLT GTPLWVTGSGTSKTVLTRYAT VLNRVLPVPTQVASGQCVEVE LFARYPLKKITA EKSTTAVNPG VLNGRYRVTF TNGNHITFVSHG ETTLSEKGLKLQSHLDREEY VARVLDREAKISTPP
15846	46214	A	15937	323	695	FTGPRRSLEIEVAELKQRLD SLL AIGAGGSVCWTLQGAWSPTRA KAGELKTQLATAASLR/MDKH RSNSVGPHDLYFTLLDDYLHV VDTALWLSGGKASLDGGTLLT NDAGEMLFAEHHSAGPL
15847	46215	A	15938	1	235	
15848	46216	A	15939	98	593	MSKVRLMRNLSPAPPNAVAKG ESKPGIMSGWVF*AEWAYLITG *AKKKVYGSS/ARIHLRALRY SNWRQYFAGYTFGRQYWQSPE DDHLPLLREFLARHEYMOKYL LGTESGIQGEELGASDGKPEEV EWQTAAIEGKLDLLVTLD FRM SSTCLFSDIVLPTAT
15849	46217	A	15940	367	677	LSSCLRATQSAPAVRNWKARFL RCTVVVWQKRSSSTGRNMYLPV RPTILKLRPTWHVTW*LSGASL RNWVHCCTRKKKVKCSSAVA* RKRNICPMKLHVSSTRK

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15850	46218	A	15941	1	921	MEMSSLEFLHSICSHLKCHLLY YIASA YNYDWYTQPAKLSFISE GEIKYFTDKQMLRDFVTTRPAL KELLKEAVNMERRNRWVDIGP GTELD CISQAYA QFVASTAECC GEGGIKA WDYVRMGFLSRMG VLNNWLTRRRKLLWSARSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLARYE RPMKKLAGRSSIAILAFRGHDQ RDYEFPSKSALNIN*LRWALAS VK*TTACATGVFPVSVTGARRF
15851	46219	A	15942	531	637	SIFARLNASRRC*TSALYALLVR LPHIQITAKGIL
15852	46220	B	15943	120	881	
15853	46221	A	15944	1	1583	MADRVDSKCSRSRPGAVAHNY NPSTLGGRGGRITFWLLSANPSI NRGTLEKESRTVAQRLSVLHGI NAPEFFDKAVFSSLVLTLRDEG YISDSGDAEPAETMKVYQLLAE LITS DLMIFNISATVLYITAFIAC SAAVDLTSLRGTRPYNQRAAA SKEIEDLKKKLTEGEEISGCDVS GSDGDDNEEGKIGEDEEKRNT GGNKVFPERTVETPATADAER KALETKLDVEEETRLQLNSRNR KKDLKTRQEHQSLPEKFSGLQK NVLLEAVIDPALIAQLRQAYEE AL\RIAQAPAKSVWQPEEYEEA EHEILLAFRALLASDSERFLPSA WQRFIQQLNYCSMEEIDELRWS LCTIAMNTAHLSEFCVVLLAER LRWLQEENTGEIDEEESFLY AIAKGNVFNFTILHLPVAVQN DTIDFYQMFARIWLP GAPGAYC DGLHTSKRTTCTTSTHQRQRKD TPPALNPHTATCTPPHTWLGAP PPASMRSGPHNAPTPPFTGSTPR HTHDHTNITNANIPHNVNSN

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15854	46222	A	15945	1	1228	MGVLNNWLSEESLWISRIHL RALRYYSNWRQYFAGYTFGRQ YWQSPEDDHLPLLREFLARYER PMKNCWKILDIEETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRIAQSPAKSVWQPEE YEVAEHEIL\LAYRALLASDSER FLPSAWQRFIQQNLNYCSMEEID ELRWSLCTIAMNTAHLSEFCVV LLAERLRWLQEENTGEIDEEEL GSFLYAIKGNVFNFTILHLPV ARRPDICTQHNDQSRCEGYQIL SDKRGHQHGGGITALYQCGNA DPRAKGERLFFDAPAKDSTQTR AEDAHYAGSNNMSPPDQQGDG RKQIWESVRVHTPVRCQQRSLP VTSYLNNGGEIFNLIGLICRTRRIA ARWVKSHNRARSFECLKRHR FVVAFNRRKPGLV
15855	46223	A	15946	71	323	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRLNRNARRKAA\R GSNDLEAEASLPEKKGNTLSRD LIDYVRYMVENHGEDYKVSGS
15856	46224	A	15947	48	627	AAGAVVSAMPKAKGKTRRQK\ FGYSVNRKRMSRNAKRKAAR\ GLECSHIRHAWDHAKSVRQNL AEMGLA\VDPNRA\VPSRKRKV KAMEVDIEEEA*KNLYRKPYV LNDLEAEASLSEKKGNTL\SRD LHLTMYRYMVENHGEADYKAI A\RD\EKYYYQDTPKQ\IRS\KIN VYKRFYPAEWQDFLDSLQKRK MEVE
15857	46225	A	15948	796	1301	LTKKDYISPNARKAFVQRLPER NLLTRGLKRQRQPCLSCWCGG QARMPKAKG\KTRRQKFGYSV NRKRLNRNARRKAAPRIE/CVR GLGFRVAVGLGRDGRDDGSA MSLFAGSSHIRHAWDHAKSVR QNLAEMGLA\VDPNMAVPLRK RKVLTWQGLGPCLLYSSPAILT
15858	46226	A	15949	512	675	SQDFGPPSAAPSPSGMP\PGPSG CSSHRQQEDPPDGAAAPPGHGL RPGRLQELLV
15859	46227	B	15950	1	717	

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15860	46228	A	15951	587	1387	RARSRLGNPLRPLAPPSNDV GVQRA\FRPIRCRKAQVPVGSV ANRRRLRQHTRPDPLGTNRSEP GWDRSWSPDQAKSGQSCVA KIKNKNHMIISTDSEKA\FDKIQH RFMIKTLISKISIQGTHFKIIKAIC DKLTANIILNGEKLKAFPLRTE MRQGCPRLSLLFNIVLEVLAKA IRQEKEIKDIQIAKEEVRLSLFA DDMIVYLENPKDSFRKLLELIK EFSKVSGYKIKNQYCENDHTA VSGVGSFQWICGLADVKNEAA
15861	46229	A	15952	3	3201	SERGFRAGDLRYPTHFLSTNSV. LASVTASLKEHPRGTLSDGSP ALSRNVGMTVSQKGGPQPTPSP AGPGTQLGPITGEMDEADSAFL KFKQTADDSLSLTSPNTESIFVE DPYTASLRSEIESDGHEFEAES WSLAVDAAYAKKQKREVVKR QDVLYELMQTEVHHVRTLKIM LKVYSRALQEV\QFISTAIGRL FPCADDLLETHSHFLARLKERR QESLEEGSDRNYVIQKIGDLLV QQFSGENGDR\IEK
15862	46230	B	15953	83	1969	
15863	46231	A	15954	1	444	SSESAVEFSEPASGSSPSWELGS EGAIRDKKTSLGAHVGLSALGR A\ENTIAFQQKETDVQKSYDSP QGDCL\QDVKGKRPTLE*PSLE NPETRRFLDASYAWRESCLSW HHHTAHDIFAGKPDPLPGSTR GQDSAVCSQGQFLIVR
15864	46232	A	15955	2	236	SEGAKRDKKTS\GAHVVL\LSAL GRALEKTIAFQGSS/APSKGRKL RSRKVMTRPKGIAWQDVKGKR PTLE*PSLENPEVR
15865	46233	A	15956	1	459	KKVGNY\TTPIYRFRMKCHLC VNYIEMQTD\PANC\DYVIVSGA QRKEERWDMADNEQVLT\TGE RHPLTCLGAL/DPESALGPPKPS RALIVAEHEKKQKLETDAMFR LEHGEADRSTLKKALAHT\DH QEAQSAWKDDFALNSMLRRRF REKKKA

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15866	46234	A	15957	564	1189	AAPKMGERKGVNKYYPPDFNP EEAWLSSTDYHNSHPFRERASG SCSQGILHIFEMPYNIWCEG\C RTNFGMGVRYNAEKKKVGNY YTTPIYRFRMKCHLCVNYIEMQ TDPAN\FDYVIVSGAQRKEERL GHWRTMNRLLTHRGIEEEAEA WKTDAMFRAGTMGRPTAAHF KKALPKLEPHSGRPRAPWKDD FALNSMLRRRFRVPSKP
15867	46235	A	15958	2	1047	FVDGKLHGRGSTDIGPVAGWI NALEAYQKTGQETPVNVRFCL EGMEESGSEGLDELIFARKDTF FKDVDCVCISDNYWLGGKKPCI TYGLRGICYFFIEVECSNLDLHS GVYGGSVHEAMTDLILLMGSL VDKRGNILIPGINEAVAAVTEEE HKLYDDIDFDIKEFAKDVGAQI LLHSHKKDILMHRWRYPSLSLH GIEGAFSGSGAKTVIPRKVVGK FSIRLVPNMTPEVVGEQVTSYL TKKFAELRSPNEFKVYMGHGG KPWVSDFSHPHYLAGRRAMK TVFGVEPDLTREGGSIPVTLTFQ EATGKNVMLLPVGSADDGAHS QNEKLNRYNYIEGTKMLAAYL
15868	46236	A	15959	163	1388	RLVERWRPSGTLFKYIDENQDR YIKKLAKWVAIQSVSAWPEKR GEIRRMMEVAAADVVKQLGGSV ELVDIGKQKLPDGSEIPLPPILL GRLGSDPQMKTVCIIYGHLDVQ PAALEDGWDSEPF TLVERDGLT WCSSCRGPYCRGSS/DRLSWKL PSVMWGDSREPHLARLD\HPSG LEPQRPGSTWGGGDDRRGGRA LSRQLPYAGYAAAQCKGEVRP QVSSSRLVVECSNLDLHSGVY GGSVHEAMTDLILLMEEHKLY DDIDFDIEEFAKDVGAQILLHSH KSHLHLDLLPVVVRLLGQALFH TAHFPDNIPSSSKDILMHRWRY PSLSLHGIEGAFSGSGAKTVIPR KVVGKFSIRLVPNMTPEVVGEQ ACGAGTRESMSSLGYPSRAED DSGLSALPSQPQPFILYAT

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15869	46237	A	15960	3	433	FETLFSQVQLFISTCNGEHIRYA TDTFAGLCIQLTNALVERKQPL RGIGILKQAIDKMQMNTNQLTS IHADLCQAITTPAMAVSHIMLE SYKKYILVSLILLGKVQQLPKY TSP/QLVGRFI\KPLSNA\YHEL HKLY\STNNPC
15870	46238	A	15961	46	1481	TSGSDVAAREDLRWIAAAPP AAAFSRACCLRRSGRPGENMA SALEQFVNSVRLLLSQ\GCSCFP GQMTQLCELINMSGELLAKNLS HL\DTVLGAL\DVQEHSLGVLA VLFVKFSMPSPDFETLFSQVQ LFISTCNGEHIRYATDTWQETV LLKSMVLVLVVIYYQPLRGIGIL KQAIDKMQMNTNQLTSIHADL CQLCLLAKCFKAALPYLDGDM MDICKENGAYDAKHFLCYYYY GGMIYT\GLKNF\ERALYFYGQ AITTPA\MAVRHIIW\ESYKKY ILVSLILLG\KVQQLPKIFHLKL V G*IPLSLLSNAYHELAQVYSTN NPSELRLNVNKHSETFTRDNN MGLVKQCLSSLYKKNIQRLTKT FLTSLQDMASRVQLSGPQEA E KYVLHMIEDGEIFASINQKDG M VSFHDNPEKYNNPAMLHNIDQ EMLKCIELDERLKAMDQEITVN PQFVQKSMGSQEDDSGNKPSS
15871	46239	B	15962	1	3411	
15872	46240	A	15963	689	925	
15873	46241	A	15964	1	244	GSAPQSCASPAPVSRSAAPGTA EAAEPWAI\VP\GVEQKNYYVCV PLGLIGNCTVTSSGI\SLDCADW CLKWKSILMESLEVP
15874	46242	A	15965	469	604	
15875	46243	A	15966	286	433	
15876	46244	A	15967	4356	4643	DCPLARNKSKPQTVCLKARQTF QAINFSRALRITGYLTSFPLSRS TLPSSAGDFRASAWA*SGPTV* TLTSVPSVGINSSYIYEPVFRTLL SGE
15877	46245	B	15968	1	1472	

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15878	46246	A	15969	918	1619	KTHVLSWGSPKSTWKAGWLQ KQKTTQEKKAESKAPIEEEPAG AGLNKDKETEERSDGERVAEV APEERENVAVAKLQESQPGNA VSCSGGRRKEDEREDWGKRTQ RTHPPAAAQAPGQCPPGSTEVG AGGGLRWTPSPGRQPAGVAAD MGITVLTVP LQRCLQNSWAKE PVLVVSFVIGSLTVILPPLSPYTK YSIMINEATPYNYPVPVHDDGN M/PDMCSPHQGPQGPSLEWL
15879	46247	B	15970	183	459	
15880	46248	A	15971	864	1197	GSFRLGHGRIPPFHLRGMKESL GPDFGDPVCPLNSGPGPP\GV SAGGAGAGCGGMGRRDWVP TGPVAESPGGHLAPISGRQGA PWGGPCGQLGAGTLGQAVCG MTQDP
15881	46249	A	15972	1	441	
15882	46250	A	15973	3	182	
15883	46251	A	15974	23	475	PLEKGRQFYYPQYEDQITFTDYL EEYPTDELVWILWKQHLLKT EKSKLLSDISARLWFTYRRKFSP /ILGGTGPSSDAG\WGCM LRCG QMMLA\QAL\ICRHLGRDWSW EKQIEQPQEYQRILQCFLNRKD CCYSIHQMAQMGVGEGKSIGE
15884	46252	A	15975	224	418	
15885	46253	A	15976	743	1220	WCWGHVRVRLVLAAGPSSRGVL LLLVLPSWASFLVRVCAWVG VLGDDGV LGGFLWLGVVGRP LAVLRADLAVCVGVVACVVPF VVLPICAALVRVGCSLVEAALG L GARPLKTFFAVVVPLTKGGV VAGSMLVFVPAVGEFVIPÉLLG GPDSIVIGRV
15886	46254	A	15977	3	3492	RKHKVGILYCKPGQSSEEEMSN NEEAGPAFEKFLSLIGEKVCLK GFTKYAAQLDVKTDSTGTHSL YTM YQDY EIMFHVSTLLPYTPN NRQQLLRKRHIGNDIVTIIFQEP GALPFTPKNIRSHFQHVFIIVRV HNPCTDNVCYSMAVTRSKDAP PFGPPIPSGTTFRKSDVFR\DFLL AKVI*RLRNAAEQVPTSFTPWA TRTRQEY LKDLAENCVSNTPID STGKFNLISLTSKKKEKTKARA GAEQHSAGAIA
15887	46255	B	15978	402	2884	

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15888	46256	A	15979	294	1721	AVRPGRHDPSAGLRSAASQ* VRGHPGGLCA*GSIQPGASAA EGPPAHSRAA*SKGGAELRTR* AGGRRPAGPHAQRP*LP*GPRV PLRPPSGTFLLP/PPACTPITSRPS *KSCSRASTPPTWSS*IPASGTSP GMVRTPGEAIPGEPGEPVVPVG PGAARVLPPGVE/PRPCLWARK SPGVFFRPSSGGRPPS*KTKWS KPTSTAPPRP*T*LRCTGLAFPL PPREGEPALGRGALEWTCAPLP LPAAAGPRGRRLGCCGAAPPPR GRVDQEEK\PGPRVEGPPQANR NHPALPLSPPLPSPT/*PPPAWVP TPALAAAPAPVPTASSHSPSPG NAPVPTGSPRCLFFLRPYFPVGS ILLPFRCLISPCRFLRRRQFYG WSSAAYALLPHTPLSAACPSGP TTALHGQPQSSCSCCQEATFTV KSGVVQSGRPSLRQFYVHDFCK IQPQQLLVSHATTKATTDRYST ASCVAR
15889	46257	B	15980	35	314	
15890	46258	A	15981	1	197	
15891	46259	A	15982	3	3889	
15892	46260	B	15983	172	287	
15893	46261	A	15984	8	166	
15894	46262	A	15985	250	1095	
15895	46263	A	15986	366	870	NHSLAKKGTAHGLGMEKCCGR SPFFSFFPSWIAKPTLRSSSSWPH SSSSPSMSSPLQRAVGDTKRAL SASSSSASLPFDDRDSNHPSEA CTTPGGGWEVADGNTDSSLAD EGSDFEDSFNRNVKKKAARKPP KTPPV/AKQPKGSRVVRHRSR KQSEPPANDLFNAV
15896	46264	A	15987	30	229	ALETNIGSSYNYGSEDQAEFLC VVSKEHSTPNGLSSESSRKTK\ CYKPEAPGCEAPDHLQGLGVPI
15897	46265	C	15988	1	930	
15898	46266	A	15989	1	609	

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15899	46267	A	15990	1	875	MRMEAGEAAPPAGAGGRAAG GWGKWVRLNVGGTVFLTTRQ TLCREQKSFLSRLCQGEELQSD RDETGAYLIDRDPTYFGPILNFL RHGKLVLDKDMAEEGVLEEAE FYNIGPLIRIIKDRMEEKDYTVT QVPPKHVYRVLQCEEELTQ MVSTMSDGWRFEQLVNIGSSY NYGSEDQAEFLCVVSKELHSTP NGLSSESRKTKSTEEQLEEQQ QEEEEVEEVEVEQVQVEADAQ EKGSRPHPLRPEAELAVRASPR PLARPQSCHPCCYKPEEPGCEA PDHLQGLGVPI
15900	46268	A	15991	1	2448	MRRGETRSRRPPQCWAFAHVV SRSSRRGEFFSFDRWKKHRSEV RESAQVPTTKREPVLFQHKINIK IVIALVDILFALGLGNLVCVSPV QLFSVQTDSDRATGDQRLPSWT AQRYGTRTLGPDGFTERCYPYGP SPESLLCSALPWRLDLGMPVAE APQVAGGQGDGGDGEEAEPEG MFKACEDSKRKARGYLRLVPL FVLLALLVLASAGLEMLSDPGS RSYGSGLLPAWAKCPKAPHQR SLIPPDYAPGVNHPPPQERCSM GLRTQGTGLGRHRVLSAQQVAF SVSLLMAKIAFAKQKSDDIIPDF KLFMVTLVHRPNRLSARVLT VPVLPAPCPMLLPLLEGYKAEV MVSQVYSGSLRVLNRHFSQDL TRRESSAFRSETAKAQKMLKEL ITSTRLGTYYNSSSVYSFGEGPL TCFFWFILQIPEHRLMLSPVV QALLVEELLSTVNSSAAVPYRA EYEVDPGLVILGQYCEWKPPG RRMQTPRPAMRMEAGEAAPPA GAGGRAAGGWGKWVRLNVG GTVFLTTRQTLCREQKSFLSRL CQGEELQSDRDETGAYLIDRDP TYFGPILNFLRHGKLVLDKDMA EEGSQVWTVTSGGWGDRNAV LTGMGRALSLFLWLIQYLKFC VRAWVLEEAFYNIGPLIRIIKD RMEEKDYTVTQVPPKHVYRVL QCEEELTQMVSSTMSDGWRFE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
15901	46269	A	15992	1	573	MPGLLSRPRRGSLRARPCGGGE ALPEHVAIDVCPGPIRPIQQISG YFPHFPRDLPHDAPARPATASA GRRRPSDGARDHDKDGDHDLFG SLTIQHRPW/PAPSPDFPFTPFVAV LYPG/LKPMDHNGLADPCVKL HLRPGARKVPEACQLAPDLQD SSCLTAITKAHDVLTVFLPAAL KIQGNKYLTFIECQKLF
15902	46270	A	15993	500	2022	WTREKEPPGVETHGKASRTTL GLSLWCCLHLSEIQSSFISDCAR PRCSGRLPGSGPMLLATPHVLA TVVASSCSKQLWWLPPKVATD QQQMKLKGLFIAGAPPGSPR/G VQPHLQPIRNMVSRTMEDSCE LDLVYVTERIIAVSFPSTANEEN FRSNLREVAQMLKSKHGGNYL LFNLSERRPDITKLHAKVLEFG WPDLHTPALEKICSICKAMDTW LNADPHNVVVLHNKGNRGRIG VVIAAYMHYSNISASADQALD RFAMKRFYEDKIVPIGQPSQRR YVHYFSGLLSGSIKMNNKPLFL HHVIMHGIPNFESKGGCRPFLRI YQAMQPVYTSGIYNIPGDSQTS VCITIEPGLLLKGDILNSEILFGV DELSLTGFGCLKCYHKKFRSPAR DVIFRVQFHTCAIHDLGVVFGK EDLDDAFKDDRFPEYGKVEFVF SYGPEKIQGMEHLENGPSVSVD YNTSDPLIRWDSYDNFSGHRDD GMEGAQHPPQIGQDTPPGPSDPP
15903	46271	A	15994	171	720	LSGSSAGKVAAPCVPPSNHELV PITTENAPKNVLDKGERPSRGG NTRKSLETTASTGSPR/GVQPH LQPIINMNVSRRTMEDSCELGPV YRTERNIAVSFPSTANEENFRSN LREVAQMLKSKHGGNYLQRN VSL/RRLSPSLRHPGPWPPSQEP GMCQGEPPATLWPMPCGPT VLESPGGPGP
15904	46272	B	15995	145	972	

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15905	46273	A	15996	2	1096	WPVLTAAGCWLQDPAGHRGG RAGGAGRAVLFLQLAGRAELR GLRARGWARSWAPAPGCQRTG RDAAAAGRAGRAGALLGFTC LLAALCGHLGPSWRGGLAPG GEWIWLRASETRGPSGPRPALM GSQKIRNITRTRHGPLHWLHSG CTTATPFCLTRSCSDAACSLKG LPCLCPCGLSVLIRVRLELRRHQ RAGHTIPRIFQAVVQRQPERLA LVDAGTGECWTFAQLDAYSNA VANLFRQLGFAPGDVVAIFL/E GRPEFVGLWLGLAKAG/MEAA LLNVNLRREPLAF/CLGTSGAK ALIFGGEMVRAPPPNAQAPPLT PVSPADRLFYIYTSGTTGLPKA AIVVHSSARPSCPSSRTLRAAHR
15906	46274	A	15997	397	597	SIKSPEIHSPSTRIRMGCSLPT EAHAEGVIELSRIKCEIVKSD/ DRIPCHYKYPFQVSPSGGSSP
15907	46275	A	15998	1922	3886	EGDNKLPRIRRKLFPLVVLRG DAQGAPPFKNWIMNNFILLEEQ LIKKSQQKRRTPSNFKVRRFFVL TKASLAYFEDRHGKKRTRKGS IELSRIKCEIVKSDISIPCHYKY PFQVVHDNYLLYVFAPDRESR QRWVLALKEETRNNSLVPKY HPNFWMDGKWRCCSQLEKLA TGCAQYDPTKNASKKPLPTPE DNRRPLWEPEETVVIALYDYQT NDPQELALRRNEEYCLDSSEI HWWRVQDRNGHEGYVPSSYL VEKSPNNLETYEWYNKSISRDK AEKLLDGTGKEGAFMVRDSRT AGTYTVSVFTKAVVSENNPCIK HYHIKETNDNPKRYVVAEKYV FDSIPLLINYHQHNGGGLVTRL RYPVCFGRQKAPVTAGLRYGK WVIDPSELTFVQEIGSQFGLV HLGYWLNKDKVAIKTIREGAM SEEDFIEEAEMMKLSPKLVQ LYGVCLEQAPICLVFEFMEHGC LSDYLRTQRGLFAAETLLGMCL DVCEGMAYLEEACVIHRDLAA RNCLVGENQVIKVSDFGMTRF VLDDQYTSSTGTFKFPVKWASPE VFSFSRYSSKSDVWSFGVLMW EVFSEGKIPYENRSNSEVEDIS TGFRLYKPRLASTHVVYQIMNHC WKERPEDRPAFSRLLRQLAEIA
15908	46276	B	15999	58	1526	

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15909	46277	A	16000	3	378	GASPD LGGRVLGAGASAESPR GRPFGPSPLGGPPVPGCQCAAP SLRDPWGLWAPVLQMTGSYEF KLNQPPEDGISSVKLSPHLTPSP GLSPSWETSRLYDV\PGNFM AVKYQ\HTGARPGNGPF
15910	46278	B	16001	83	2851	
15911	46279	A	16002	296	1186	AENHPGPLVVEGKMTAPERM KHESNYLRGTIAE\NLNDGLTG GFKGANFLLIRFHGMYYQDDR DIRAERAEQKLEPRHAMLLRCR LPGGVITTKQWQAIDKAGENT IYGSIRLTNRQTFQFHGILKKNV KPVHQLHSVGLDALATAND MNRNVLCTSNPYESQLHAEAY EWAKKISKQLLPRTRAYAEIWL DQEKVATTDEEPILGQTYLPRK FKTTVIPPQNDIDLHANDMNF VAIAENGKLVGFNLLVGGGLSI EHGNKKTARTASEFGYLPLEH TLAVAEAVVTTQRDWG
15912	46280	A	16003	225	386	GLCIPVVRSPCQLWGQKGPCM LRDEGRVFT*LSTKKNCPGNMR RKYETVDCRR
15913	46281	A	16004	386	739	PLLIHWR FATIEEADHRLAAG ARTFQ/PLCGPPQAQAVWR*AQ *FQADRFPASRWRRASSGRRF SRSGRARRCQSVAKRRRQIHEC GRSTPDCRCRMRQQYRCCRDA RRYQNRAPRR
15914	46282	B	16005	10	1468	
15915	46283	A	16006	3	1267	GRSRR**PPSAVPHD\PAVQRER DTQSLSVII*MQIYNFSNTTHLT NHNTFLTFHKTFTAETFQHIGP QPTTDTPYHTAEAYCCQLVKLI RRQALRRCWQGAAILKCN SKP TNHCTS

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15916	46284	A	16007	1	1673	MTPICTVFRALSRLPDLWHRSI GTLTEALPQTDKRQEQIA VALT SYSGLYGLGYGSKEIQLTYSGT ESGIWFPYPSPNATHKGCGRHR FACPIAPHFLVIEPQSALGSCSP VEVDPGGCVFGAIRLLVLRDAP SFSRLLNTLASGESLQGGPGFV GVSKVYAFLVVRNPTGTMPFT GTFEIPKWPTFPIPPVFGRLGSF VLQLQGPRSPGQCEYDRELVSG SRSVSSCLLVLTGLHLLSYKDA GVDIDAGNALVGRIKGVVKKT RRPEVMGGLGGFGALCALPQK YREPVLVSGTDGVGTRRRRLAL VLKRFVFIGIDLAMCGNDLVV QGAEPFLFDYYATGKLDVDT ASAMISGIAEEKSEILDGSKVSD GDVLIALGSSGLHSNGYSLVRQ ILEVHRAAADVLSDADAVSW RAPYQTSSGLRKKINQGA VSFV DLHLSEVAQM VNYGFFGDIDV AVIEASALAPDGRVWLTSGIRN APTWLLRAKKVIIELNHYHDP VAELADIVIPGAASRRNNGSIFH AMDRLGNPHVQIDPEKIVAVV
15917	46285	A	16008	425	595	
15918	46286	A	16009	315	721	QCFRALGGHRRRIADRGENIQV WIEPGC/INDLLKWLNALDEKY RSRLVWARSSKNSLCASEANW LEMNNRLSKGDLPCIRPILIMLI R*TCSYGFTALR*TQNAAGGGD SLAGGIGIFTLVFFTLPAYAIRW LPR
15919	46287	B	16010	652	858	
15920	46288	A	16011	238	2526	
15921	46289	A	16012	21	522	IPCCRSTRKTSGAGLSITSEQRR AAVSRISVTSSLLASAG/VRYRQ HHARDRVREPRVDKL/PR**TPC SARLSLYGPSR*WW/MARVLIF VTLPVRSRIVTVSPMRIGFSNRH RPEIKLAKISCKPKPRPTPSAAT SHCNFDHSIPIIEKPTSPISISRY LVMVVMA
15922	46290	A	16013	2	527	

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15923	46291	A	16014	1	1734	MVNGCDSTNASSYANVNGCDS TNASSYANGERCDSTNASSYA NGQVRSTNASSYANGERVRL DNASSYAIGERVRLDERTSYAN GERVRLDERILLANGDRVRHHE RILERKATFNNSGTTCCRAVYS RVSAMTAPDKAFTPHRQRCRLP DATLARLIRPQIPAPSVGRIRRL RRIGNSANCLMRRLRVLSGHKF PHHPMPNVVSANGYRSFPFMA S YMTPFPGYLTAWSYCLCGCRW GSLKSPPLALCPVLVPGDGA VD TRIDAVLVALANLAAVRLYA KSSSAAGIINFVLTAAALLAV T AACTVATYALRTGKNRQYRA MQSFRRSSIDNRVDTFKGTGA LGISVTVIAVTCKSRLVYPIPV Y TGLSLPQRPAVVVKVNEGSMET KDLIV/GAGINGAGIAADAAGR G/LSVLMLEAQDLACATSS/ASS KLIHGGLRYLEHYESACEALAE REVLLK/MAPHIAFPMRFRPLP H RP/HLRPAWMIRIAENIS/DFVE P KLCLPRMGTRRESVLPGVCRNY ESTITSVISVSPCERDMANYVPR HSAGYRRRFYPMTQPIKDAVEP VDQDWKAGKEMAASRS
15924	46292	A	16015	1	5895	
15925	46293	A	16016	170	371	
15926	46294	A	16017	216	477	
15927	46295	A	16018	2	263	
15928	46296	A	16019	1	2862	

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15929	46297	A	16020	1	1567	MKLNKAGFNVPEYSLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCS TMMDEHITTEENQGSNLGPF RVRAGESIKFFNVLLADTPGLDI DTMDKDV A HDSRSIQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLERKDLALNQAMIPLGSC TKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPN SGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIARIEKMGVPIKCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIAVDFLQ RARQAQGDISIPQSALIIGGGDV AMDVASTLKVLCQA VTCVAR EELDEFPASEKEFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKR NKSAGNHP
15930	46298	A	16021	62	329	
15931	46299	B	16022	289	334	
15932	46300	A	16023	1	2991	
15933	46301	A	16024	418	3156	
15934	46302	A	16025	1	2169	

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15935	46303	A	16026	800	2406	SSRRMFPPAIRLLICLPARRWK SAL/GEEQLQNLQHISQEMGISP SLFSTQPLWQIAMVLQATQAQ KLGLRAEYGIDYQLLQAAKQQ HKPVIELEGAENQIAMLLQLPD KGLALLDDTLTHWHTNARLLQ QMMSWWLECEGGERERIFPVS KRMGKKLDAVFGDNHTASLTE TEEYRKSQVHFCICDKRERSSG NYQSIQGCERSA AFFIPSNSTRTK RGESMYRMDKLTGGAAYGAS AGSILNGMLNAYSPEQWNAIG VLTAAAGAEMNPTLRNKLVG AIVGGSGAITIAAVMLGNADGL EGRYYAYQDVVGWVTVCDG HTGTDIRRGHRYTDKECDNLL KADLRKAIIYISGYSGTNGIRDS LLFSSLWLIPVFLFPKRIKIIAAVI GVAFSRFIASHLAVAFESDPEAE IRQLNSRRVELERALS NHENDN QQQRIQFEQAKEGV TALNRILP RLNLLADDSLADRVDEIRERLD EAQEAARFVQQFGNQLAKLEPI VSVLQSDPEQFEQLKEDYAYSQ QMQRDARQPGVCP
15936	46304	A	16027	2336	3105	HGNAIALIASQTWRDHPVDLLL SLLVQSLT/GRLRELNQSLQKEL ARNQH LAERLLETEESVRRDV ARELHDDIGQTITAIRTQAGIVQ RLAADNASVKQSGQLIEQLSLG VYDAVRRLGRLRPRQLDDL T LEQAIRSLMREMELEGRGIVSH LEWRIDESALSENQRVT LFRVC QEGLNNIVKHADASAVTLQGW QQDERLMLVIEDDGSGLP PGSG QQGFGLTGMREVRTALGGAFH ISCLHGTRVSVSLAQRHV
15937	46305	C	16028	1	1374	

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15938	46306	A	16029	1298	2896	GAFTCCATAGGCMNIRKRNRL WIACAVLAGLALTIGLVLYALR SNIDLFYTPGEILYGKRETQQM PEVGQRLRVGGMVMPGSVQR DPNSLKVTFTIYDAEGSVDSY EGILPDLFREGQGVVVQGELEK GNHILAKEVLAKHDENYTPPEV EKAMEANHRRPARPSIMMPEIG NGLLCLALGIALLLSVYPLWGV ARGDARMMASSRLFAWLLFMS VAGAFVLVNAFVVNDFTVTY VASNSNTQLPVWYRVAATWG AHEGSLLLWVLLMSGWTFAVA IFSQRIPLDIVARVLAIMGVSV GFLLFILFTSNPFSRTLHLAYPN RCQPINWRGRHLVWYLLLFVIS LWLQLGLPDELSRFTPFCLALPI IALAWHYGWQGALIAITLMNAI ALIASQTRDHPVDLLSLLVQ SLTGALLGAGIQRRLRELNQSLQ KELARNQHLEAERVLETEQSVR RDVARELHYDIGQTITAIRTHA GIVQRLAADNASVKQSGQLIEQ LSLGVYDAVRPLLGRRLRPAQLD DLTLEQAIPLT
15939	46307	A	16030	15	277	KIGQKAPLGEARGGERTSRTA KNFGYEMLSELEA/HRRG/WL KRV*PRMKLPPEALVETFIAQLF DAPSQIMPLTSPILLIAIEMGS
15940	46308	A	16031	1	2916	
15941	46309	A	16032	1	2862	
15942	46310	A	16033	1	3099	

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15943	46311	A	16034	1	1567	MKLNKAGFNPESYSLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCS TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDV AHD SRSIQLAMLRD DEILTHPVFNRYHSETEMMRY MHSLERKDLALNQAMIPLGSC T MKLNAAAEMIPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPN SGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLT TQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIARIEKMGVPIKCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIAVDFLQ RARQAQGDISIPQSALIIGGGDV AMDVASTLKVLCQAVTCVAR EELDEFPASEKEFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRNKSAGNHP
15944	46312	A	16035	367	849	NNFCSTTSHHGQHHHTDHRCG EQNVCHRDAICQTLFRITTKDDS NFICLIEAQSACHKDVNYNHDS QKNAADHHDKQQ*SPANFMPD TINDGFAERCINHQNGRLVSF RNPFFIARHPVTNPRPGKMPQH KRQQQLQHNFTDLLKAAPCTV NIHHQTNQQW
15945	46313	A	16036	1	1066	MHQRPRTRNAVEQHRFSRQLY YALHAFEITIPPLMRRGSI PAL VNNKLRSLKRFSTRLKIDDDA LARLVSCAWPGNDFELYSVIEN LALSSDNGRIRVSDLP EHLFTEQ ATDDVSATRLSTLSFAEVEKE AIIAAQVTGAFPWWLGDVKL TIPLTLGMVAAALTDLDDRLAG RLRNLIITLFCFFIASASVELLFP WPWLFAIGLTLSTSGFILLGGLG QRYATIAFGALLNAIYTM LGT SLYEHWYQQPMYLLAGAVWY NVLTLIGHLLFPVRPLQDNLAR CYEQLARYLELKSRMFDPDIED QSQAPLYDLALANGLLMATLN QTKLSLLTRLRGDRGQRGTRRT GIL
15946	46314	A	16037	1	951	
15947	46315	A	16038	576	669	

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15948	46316	A	16039	1	1047	
15949	46317	A	16040	2	425	
15950	46318	A	16041	148	1052	RARRGVSVKAKKQETAATMK DVALKAKVSTATVSRALMNP KVSQATRNRVEKAAREVGYFP QPMGRNVKRNESRTILVIVPDIC DPFFSEIIRGIEVTAANHGYLVLI GDCALQIQQEKPFIDLIITKQIDG MLLLGSRLPFDASIEEQRNLP MVMANEFAPLELPTVHIDNLT AAFDVNYLYEQGHKRIGCIA GPEEMTLCHYRLQGYVQALRR CGIMFCRFTAEGVQEIDYKDIA TLKNYITESGGVTELIHFFIAEY SDNQRANAGGGVEDEDIEVLES LRLNENHAIKERCRS
15951	46319	A	16042	3	741	
15952	46320	A	16043	237	1542	FHRLWTGRFLPSPPSRRGTDNA AGRTKMPPSPVIF/WFALAQFV GVKHSRSIPFAAVRSHKARIRSI SRSDVATSILPQLS*RMPF*SQK ALVARFPARQNCAFRLPGV*/L DPGMDHAAVVARLVTGRGGIV WFGDRDFYRSVDDIHFGAWGDL AKECFDIVIPQTNARTYPHAN AEIGVRTMKQINAAIGRQTNR MAHWVIRSSRHYRRQLNSLCFI TGADVCRWFPQHIVPGRDSVA HVVVQHVVITYRLLRGLLHFAG DGGVNAITVFIGTFAITVIHLLA HHFAQVRRRESNLRRVIVSVNR LSACLIELLGDIPIQHPRQHD VTPRDGTIHRVERVEGRRFRQ PGYHRHFVQRQLVDRFSEIDLC RSTDITIGAVTKVNLVQIKLEDL VFRQQLFNANREEDFLNLTHQR AFWTEEEVSRQLLGNGTCPL
15953	46321	A	16044	1	1059	
15954	46322	A	16045	104	349	RSAASPWKTRKALVCCSAVVIS PALKISMIVTISVQAHG*LRKGS GVKAALSWWKFQPTMKPTITS SLTGRRISCRSRVKR

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15955	46323	A	16046	1056	2373	GPRLVQRSDHRPHDANYRQYL AGLSVHDDPLHGLAEXTIPDDL YEASAMDGAGPFQNFKITLPL LIKPLTPLMIASFAFNFNFLI QLLTNGGPDRLGTTTPAGYTDL LVNYTYRIAFEGGGGQDFGLA AAIATLIFLLRIPRRTTALQGMR SNLNMESSRWARANRRLKAIN TSLTLITQSCETYLIQNTRPELI TDTFREFFDTPVETAQDVHKQL KRLRRVIAWTGERETPVTIYSW VAAATRYQLLKRGVISNTKINA TEEEILQGEPEVKVESAERHHA MVNFWRTTSLCILGTLFWLWT GWTSGSGAMVMIAVVTSLAM RLPNPRMVAIDFIYGTALALPY GGGRPVAVGVFYGGCYCTR DG LTRAPPPNAAPTAARYGPRTTP RTL RKGITDVRCEKRHHQRQA RNAGYQTVFSDLDRLRHPALR

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15956	46324	A	16047	1	2581	MVLMGLAQNIWQFLILRALLG LLGGFVFPNANALIA TQVPRNKS GVALGTLSTGGVSGALLGPMA GGLLADSYGLRPVFFITASVLIL CFFVTLFCIREKFQPVSKKEML HMREVVTS LKNPKLVLSLFVTT LIIQVATGSIAPILTYVRELAG NVS NVA FISGM IASVPGVAALL SAPRLGKLGDRIGPRKILITALIF SVLAVIPIRHFEMRSKESRPSAW VTPKGEWGKGSVELVEIPTNDE TNDNIVAYWTPDQLPEPGKEM NFKYTITFSRDEDKLHAPDNAW VQQTRRSTGDVKQSNLIRQPDG TIAFVVDFTGAEMKKLPEDTPV TAQTSIGDNGEIVESTVRYNPV TKGWRLVMRVKVKDAKKTTE MRAALRVWNKPGQNHQHLGN GFYGGVYGGYLETMFGGAGAE VLYRPLDSNWAFLDANYVKQ RDWRS AKDMMKFTDYSVKTG HLTAYWTPSFAQDVLVKASVG QYLAGDKGGTLEIAKRFD SGV VVG GYATITNVSKEEY GEGDFT KGVYVSVPLDLFSSGPTRSRAA IGW TPLTRDGGQQLGPGYTDLL VNYTYRIAFEGGGGQDFGLAA AIATLIFLLVAIMFPLLMVVAIS LRQGNFATGSLIPEQISWDHWK LALGFSVEQADGRITPPFPVLL WLWNSVKVAGISAIGIVALSTT CAYAFARMRFP GKATLLKGML
15957	46325	A	16048	1	765	
15958	46326	A	16049	869	1012	MAISFMMSCFVT*VAANSAILL SMSWRA*SNSNGP*LANSILLS AAC

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15959	46327	A	16050	1	1854	MTLSCNSTDFEKTVTSVPALPD VVSDSDMSLNAHSVTLADNVQ LSFRRDSYSGQPSVIYTTTPQRPT AGSEDAPVWPEAFTEDVRHNR PPYPVIPRATRPACLARERMAM YMRPQIKTIGKAPAEALSNPR MQGPQLSSASTIPVTPFWLFG SHAAGHFSQHAHRTALTGHFS HLATTLKGLALEGNAIFTITRFT RPYGHKNTTPHSP LCSAPHSPIF NSRRKVYQGHPQWWAFIHS RPGGSSHSSILHCFALVCPGLVV QRDTPHPHIRPALCPPIAIAFSLSL WLGNPSPSGTQHLQGPQTFQQ QASPSKVCPRKICTVIPQQRV ASHHHFHGHNRYYQLGLPVQH CTLQGVIRATHFIPRTARNQISH VSWGAGPAHSDSQGKQDLE/H EPIKPLDNSEKASKV/SQALET TTTAEKVQRQ/PVIAHLIRATER FNDR/LGNQFGGVLAS/HPMLL QDIFDKILQNIS/DPTLAATLKNT INTAVHSHLVPAGADGIFLLLRP FDAVCAAWIATAEYKDYPGMP GKTHLKIRLMRRERLIGIRFYSG LLPGTKAPYSRTLAFKRVLHTA LSLHLGLGKTCTTGFECSLTLL EYASNAFTYWPDPWHINRIKN N
15960	46328	A	16051	249	724	EKVKKTQRKEIENVTNITGVRQ IELWRRDDLQHPRLDEVAEEVP VALVYNGISHVMMASPKDLE YFALGFSLSEGDIIESPRDIFGM DVGVPACNGLEERRRALDG/R TVAGCGVCGVEQ/LLNDIGKPV QPL\PTQT/FDLNKLDDALRHL NDFQPVGN
15961	46329	A	16052	71	408	RYLSTASQTSNIQIGAGLSRSRA FTTFGSKGILLSHTSVFIPDRCT SFSMMPTCSASLTSHCPFQMTS LLSSHHP/FK KKKFGTKTGHCL CPSLNCLPCCFSQIMVIKQVIL
15962	46330	A	16053	668	905	CLHVLHHLTSHCPFQMTKPYST IHFLPRMTSLLSSHHP/FK KKKF GT\KTGHCCLPSLNCLPCCFSQI MVIKQVILEKKK
15963	46331	A	16054	834	1057	ARLLFMDLLDERTLVAVERPL\ VTSLLSSHHP/FK KKKFGTKTG HCLCPSLNCLPCCFSQIMVIKQV ILEKKKTK
15964	46332	A	16055	1	1011	

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15965	46333	A	16056	191	631	NLLRGNKMATQSSPVITDMKVI PVAGHDSMLLNIGGAHNA YFT RNIVVLTDNAGHTGIGETPGGD VIYQTLVDAIPMVLGQEVARL NKMVPQVHKGNQAADFDTFG KGAWTFELRVEAGAGLEARLL DLLGKALNVSGCELLGHGS
15966	46334	A	16057	2	335	GARQQQKFVLIAGGFP*QLL*T NAVIGREFRNVQECIGLHTAGF ANAVTKHFGKCAIALHNMAFR IEDNHRVEMVNGNNQLSGLFF LRH FYAGIPYQRQVINFLGAH
15967	46335	A	16058	736	910	RVSTPRATGTVPQRDYPLSVVA TG*PDSFHTYLFVRTY*K*V*VL AYLNTRQNDGDFF
15968	46336	B	16059	17	1699	
15969	46337	A	16060	3	440	
15970	46338	A	16061	1	564	
15971	46339	A	16062	1	1062	
15972	46340	A	16063	203	425	LNNWIISWLLHMMCLMKVAN CFRS*DRRELA VSAFFVLL*AM RLRRSSSGFLANLAHLQMKL NSSTYVPPTKH
15973	46341	A	16064	402	713	RGVAISLGQSKSHGYIHFQVAQ REPEILGDSIKAVRWCSLHGRL M***M*RD LKQWFS APEA*VSL GTLCVIGQKAVGSLALMSWEP TPRPMGLLSTSR TLYS
15974	46342	A	16065	944	1305	LPLWFISALRLAGIAVWCVLST GFEQIRMIKAFGLEDRQSAL/FA ADAEDTGKKNMRVAR/IDARF DPTIGWPSSLGLLFSNRTPWVPP PFFFQVPQ/LHTFIRGILIWKTFP FWIFPFPASSW
15975	46343	A	16066	1	756	

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15976	46344	A	16067	50	1191	CLTIAVFFPAPQCPMFSPICHT ARDGERAASMIQDYIFCFFSASF MKLKPERMHSHERAQTSDMLK DCRRHLPILMAGGMFAVLRK KHQQQTFIERPRISLTCMLPSW ATFLWLFTRIGQVLVTCLLSMR ECFVNE/VQVIATVVSVPQVN PDIVAMIGASAALSLSGIPFNGPI GAARVGYINDQYVLNPTQDEL KESKLDLVVAGTEAAVLMVES EAQLLEDQMLGAVVFGHEQQ QVDSRGSPIKGNRTCDNYIVIEG LIDYVNDMIENVSEEAFCVENR IMRHSDDHSCIVVRCLSLFALD LVLVVIASVSVNPCLLEVTRLR AASIVSQPNLNISDTWGIGAILY GAYTCSCIADPHKMMSSGPMY SHSCVEK
15977	46345	A	16068	401	1518	LILFMST/ALLDAVVKKNRVRLI PYMLALYVLAFLDRSNI GLAKQ TYQIDTGLSNEAYALGAGIFFV VYAFLGVPANLLMRKLGARTW IGTTLLWGFLSAAMAWADTE AKFLIVRTLLRAAEAGFFPGMI YLTSQWFPQRNRASIMGLFYM GAPLALTGSPLSGALLEMHGF MGHPGWFWMFVIEGLLA VGA GVFTFFWLDDTPEQARFLSKQE KTLLINQLASEEQQKVTSRLSD ALRNGRVWQLAIIYLTIQVAVY GLIFFLPTQVAALLGTKVGFTA SVVTAIPWVAALFGTWLIPRYS DKSAAKRYTRPHRECGYFSAPY HPPKKVRNNAPHSGPGPICLIRL RVRVRPNLGIEVYKHDSPPNNA
15978	46346	A	16069	283	822	

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15979	46347	A	16070	1	1400	MTDLIQRPRRLRKSPALRAMFE ETTLSLNDLVLPIFVEEEDDYK AVEAMPGVMRIPEKHLAREIER IANAGIRSVMTFGISHHTDETG DAWREDGLVARMSRICKQTV EMIVMSDTCFCEYTSHGHC LCEHGVNDATLENLGKQAVV AAAAGADFIAPSGAMDGGYDV FVRNENYWGEKPAIKKITFNV PDPTRAVAFETGDIDLLYGNE GLPLDTFARFSQNPAYHTQLS QPIETVMLALNTAKAPTNELAV REALNYAVNKKSLIDNALYGT QQVADTLFAPSVPYANLGLKPS QYDPQKAKALLEKAGWTL KDIRKNGQPLRIELSFITDAL SKSMAEIIQADMRIQIGADVSLI GEEESSIYARQRDGRFGMIFHR TWGAPYDQRPSQSKRVRQR*F QAQOD*MKKPTQSKWNRATR VRGGREILTKFVLTA PLKWLKR SNSRRVSFAG
15980	46348	A	16071	592	1427	IPIGVTPCFSTLRRTLFALLACAS FIVHAAAPDEITTA WPVNVGPL NPHLYTLNQMF AQSMVYEP LV KYQADGSVIPW LAKSWTHSED GKTWTFTLRDDV KFSNGEPVD AEAAAENFRAV LDNRQRHAW LELANQIVDV KALSKTELQITL KSAYYPFLQEL ALPRPFRFIAPS QFKNHETMNGI KAPIGTQPWN LQESKLNQYH GFRNENYWGE KPAIKKITFNV IPDPTRAVAFE TGDIDLLYGN QRLPLDTFARF SQNPVYHTQLS QIWNQ
15981	46349	A	16072	1	1071	
15982	46350	A	16073	585	1072	RPARDVPLPIRGLQPSLRGPQQL PEKPAVEVRLDKWLWAARFYK TRALA REMIEGGKVHYNGQRS KPSKIVELNATLTLRQGN DERT VIVKAITEQRRPASEA ALLYEET AESVEKREK MSPRGPPFVGAP KNPRGFLKLNALTM PHPDRRP DKKERRDLLR
15983	46351	A	16074	36	356	ASHTLARKSC*S/PSLLYQENQA HNQMPASELKASEIPFHPSIKTQ DPKAEKSPRSKR*L*QRQVLP DPAADLSVKPPGPLMLPLCYLS GPADITVLKASQDGLIA

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15984	46352	A	16075	1	2111	MNTPLQSAHTHLTLVEFIAYLV SDSPFPAASTLSLPTCNFDPCT KLGAGTMPPAAAGGQRRPHAA PPAAYPHRNKVRAAEARTSRA VRREYEAGDEASGRRGRGGRM KSVQNA RADRGMWVRERRAV VRGQENTVVVF AAAASPESDFL QIVLRDIAREMVPEYKSDLQPR TQMDAKKPRKCDLTPFLVLKA RKKQKFTSAKHLWVQRKGKG VEDHADWQGQIWVGVEGKSA EGQGLNLTGAFNRSPENKVSQ GPALNALEIDSSYLDPQALALP QGWQGLLFPPLLGTENVGSKLS VQIQKPPSNIKNSRMTQVFHKN TSVTSLPFVDTKGKKNTVSFPHI SKKVLLKSSLLYQVSADGLDPE KAGERPGFSPKPVLERPRIVGKS TVAAEEENQAHNQMPASELKA SEIPFHPSIKTQDPKAEKSPKK QKVTLTAAEALKLFKNQLSPYE QSEILGYPELWFLGLEAKKLDL APEKFSKTSFDDEHGFYLVKLH DHIA YRYEVLETIGKGSFGQVA KCLDHKNNELVALKIIRNKKRF HQQALMELKILEALRKDKDN TYNVVHMKDFFYFRNHFCITFE LLGINLYELMKNNNFQGFSLSI VRRFTLSVLKCLQMLSVEKIIH CDLKPENIVLYQKGQASVKVID FGSSCYEHQKGHLPSRLRSVT TTSMILNKVLRFPSEKPLPHLQFE

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15985	46353	A	16076	28	1327	GYKMPVITLPDGSQRHYDHAV SPMDVALDIGPLAKKPLVIRQ GAAGLMAKLVDACDLIENDAQ LSIITAKDEEGLEIIRHSCAHLG HAIKQLWPHTKMAIGPVIDNGF YYDVDLDRTLTQEDVEALEKR MHELAEKNYDVIKKKVSWEHA RETFANRGESYTVSIVEENSAD DDKPGLYFHEEYVDMCRGPHV PNMRFCHHFKLMKTAGAYWR GDSNNKMLQRIYGTA WPKKA LNAYLQRLEAAKRDHRKIGK QLDLYHMQEEAPGMVFWHND GWTIFRELEV FVRSKLKEYQYQ EVKGPFFMMDRVLWEKTGHWD NYKDAMFTTSENREYCIKPM NCPGHVQIFNQGLKSYRDLPLR MAEFGSCHRNEPSGLHGLMR VRGFTQDDAHIFCTEEQIRDEV NGCIRLVYDMYSTFGFEKIVV
15986	46354	A	16077	1692	1776	
15987	46355	C	16078	1	1341	
15988	46356	B	16079	83	373	
15989	46357	A	16080	2	64	
15990	46358	A	16081	1695	2293	EMISNPFIPSSILPLAKIRNIGIMA HIDAGKTTTTTERILYYSYTRSL GDVDDGDTVTDFMAQERERGI TIQSAAATFEWKGYRVNLIDTP GHVDFTLEVERCLRVLDGAVA VFDASAGVEAQLTVWRQADK HNIPRI VFLNKMDKTGASFKE VITISLQKSGITKLCFFCVLKL V SQERCQASKCNKIEGQRFNQ
15991	46359	A	16082	1	2901	
15992	46360	A	16083	1196	1740	FWLKAMPTIVTASPRWFSC/LR EIRSAASAIATAIQAIARPSTV IATTLNSNSHGSSDSTSVEMK AIINKLRILRGRSRPQTRGPTPS SSANGTISQVNMVLKNGSPIEL PSPSCLCTNGSSVPSNTTSIAAT SKTLFANSKDSRDHSALFTRER TLCPRANSSSEPANHQHKG ED
15993	46361	B	16084	49	398	
15994	46362	A	16085	378	566	
15995	46363	A	16086	1	2184	
15996	46364	B	16087	311	4963	
15997	46365	A	16088	12	335	
15998	46366	A	16089	1034	1400	

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15999	46367	A	16090	1767	2973	SGARRLAG*KPGNAVSAAPFYP YARPV/SMISPMILPC*CWKC/D PAAKRQFRERTAVRCVAQFVD VGKLIPFWGLCVGIYATNSAET FLHRVVQLLNDSEHTLQDAIT IRDEDFTA TPSPADEVAYIQLSG GTTGTPKLIPRTHNDYYSVRR SVEICQFTQQTRYLCAIPAAHN YAMSSPGSLGVFLAGGTVVLA ADPSATLCFPLIEKHQVNVTA VPPAVSLWLQALIEGESRAQLA SLKLLQVGGARLSATLAARIPA EIGCQLQQVFGMAEGLVNYTR LDDSAEKIIHTQGYPMPDDEV WVADAEGNPLPQGEVGRMTR GPYTFRGYYKRSSVLGKGSDCS FGVFLPGLLPASSVRRDSNVSI RNVVSLINSSRWKSGFTWHDN VLQLDGSFPLT
16000	46368	A	16091	845	1920	YPMMRK/RLMKLWREAKALHS DPFEPWASHIEDADKAKSSKQA RGRGGFVRSSWQEVNELIAASN VYTIKNYGPDRVAGFSPIPAMS MVSYASGARYLSLIGGTCLSFY DWYCDLPPASPQTWGEQTDVP ESADWYNSSYIIAWGSNVPQTR TPDAHFFTEVRYKGTKTVAVTP DYAEIAKLCDLWLAPKQGTDA AMALAMGHPPERESGRYRLIPV PASGYPPDPAPWDQFPVHEL CDTANGCPLPELASPAGYTSSIN RVSTCVSTLAKSSYRSRVRVKR LRRRFNGGVHFRRVVAVVIDQ HCRTAFTIHWLQREFTEEIKTAT SPLEAFKRPQNSLVVNALFRSN RNAAAAFSAL
16001	46369	A	16092	1	209	VSFMIIAALMMMIDTGWLLV AAGFVGAIIVAS/ARPGRNKR IALISAIGMSIFLQNYVSLTEGSR DVA
16002	46370	A	16093	194	657	CLDHLRAVQSLRLPLSVPAAM RPGAAIGYTMVYGIIGMIN/FAH GEVYMIGSYVSFMIIAALMMM GIDTGWLLVAAGFVGAIIVAS/ AYGWSIER/VAYRPVRNSKRLI ALISAIGMSIFLQNYVSLTEGSR GLATEMFLEKGDNGTEDGRAR
16003	46371	A	16094	1	3303	
16004	46372	A	16095	3	5071	
16005	46373	B	16096	144	326	

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16006	46374	A	16097	282	599	IPVSISGCHLAGAGTQTASGVP VPHPHGLAHQRQSFIGNTKTEC WPISSVPPHHW*A**TDIGAGSG DDQRVLDVWWNWRTKE*P*W W*PTNGLCRKVANRQAAR
16007	46375	B	16098	1	276	
16008	46376	A	16099	812	1084	
16009	46377	C	16100	1	1608	
16010	46378	A	16101	173	504	SADSKPVLPRTSASLVASCSSTR CGLRQASMESNNLTMVFGFSIG KVWMRS*NSATSLAKSRISFGT RRRWHSCTN/SNTRRAMTMM TRPEFWRRQPCGLSIAAIESVIK V
16011	46379	A	16102	1	816	
16012	46380	A	16103	742	1182	PAFIECSKAQENNHKGNCYQSG SLVSR*AFLIRHTRPVITNARR*F *RKVFHQRHGIAGTGSWRGFPL NLH*RQTVVAFQSRRAIHPM*S GKGREWHHFAVGAADIKFIDIF WQHTEFGIRLNTRRAMTMMTR PEFWRRQPFTEIVA
16013	46381	A	16104	550	884	KRYGMAASFHSGEITTHRTPAP WRMVVMSPARMAHDLAQT WRG/APRPLPDTLATMTPQAY/ NSIQYDAEKSLWHNVE/NRQLD AQFFHMGMGFRRRTLWAGITN AQVCGWTA

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16014	46382	A	16105	2363	2856	MLTLWSSPTTTRRWRAASSV ANTLA*MTLSMAAMLSPQVDV RFATLCHDLGKGLTPPELWPRH HGHGPAGVKLVEQLCQRLRVP NEIRDLARLVAEFHDLIHTFPM LNPKTIVKLFDSIDAWRKPQRV EQLALTSEADVGRGTGFESADY PQGRWLREAWVAQSVPTKAV VEAGFKGVEIREELTRRRIAAA SDTIPQLNEHDIHRRRHKNKAIN GERDQRNALNQLQEGFNRYQR HHKSGDQPNGKHRDIAACQEA PALVEIERRCAHHHRHRQKERK SEQHAARFGIANGDLVRVWNK RGQILTGA VVTDGIKKGVVCV HEGAWPDLENGLCKNGSANVL TADIPSSQLANACAGNSALVYI EKYTGNAPKLTAFDQPAVQAN TRPLRLARNQHRAFRCRITFHR FTRIMWVEEIGQRFGNHPFGRV RIQDSLVCVCGALRYISATFNW RKRAVTCVRSFGSDFTGSPPLR APKGESIRLLALREAGIIHILAL GEDYKMEINESRTVLKTEDNSY SFDVFDIARGQRPLKVKDIPFPG LREQLQKTGDEIPDVGEDYTLQ QPEDIRGRVAFGALPWLMDQ PFVQGLTACAEIAAACGPFDKD RIEGGIVVRMAKEGETLVLLDG TEAKLNADTLVIADHNKALAM GGIFGGEHSGVNDETQNVLLEC AFFSPLSITGRARRHGLHTDAS
16015	46383	A	16106	390	636	KFLSFRPDRVCVACAEEARAGL CLRQCITGHPEACLAIPVLCVE CWGGTDADQPVAVFPSRFSQV SPDRGT*QWLCWKFL
16016	46384	B	16107	1	520	
16017	46385	A	16108	142	243	
16018	46386	B	16109	275	919	
16019	46387	A	16110	1	693	
16020	46388	A	16111	522	714	

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16021	46389	A	16112	1	900	STCSSRSHLHLIQASPILPNYVA TAVAARIADVQGISDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLY VMTPHAFAGQTVTIYLPGEQQT LSVAPLKNVVQLVTQQHLRDR LWWPGAFLTDFAAKVKALKD/ YPNHVMAQRASGEAEADDV AATIKSVRQQLNLNITGRLPV KLDPDFVRVDENSNPPLVGDYT LYTVQRPGTQGSFKVKRARA RVRQTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAAR
16022	46390	A	16113	150	649	NALLGTCPGTARFPGTGSAPT HPDASRSRGRAACPRSAQWS PRPWQSVAGLAWLGAHWGSR STSRTAETASKRGHPRSPAQ LPPGPRPPRAPQLQRALQSVHP LSPRPAPLA/EPKLTAACWAEA VKITTVRYSDSCSRLTDLGKP VQSMLLKDIRKVYNWQ
16023	46391	A	16114	153	740	THQLFLPPHHQEISQTTWLSAA WPRHTCAHSLPLQPPVPFSRP HVPLPGPSKTWSDGPRLQSLPG/ RPSERTPRR/CRSASGQPPHLGG EERLCLAAPSGRICHCEGDDES PLITPCHCTGSLHFVHQACLQQ WIKSSDTRCCELCKYEFIMETK LKPLRKWEKLQMTSSERRKIM CFSDIPRHCRPMCGLVLVCAH
16024	46392	A	16115	1	1194	
16025	46393	A	16116	323	642	TGYARQKPVPALGWWTNVSAS TAPPIILPSITGSRLAVIKWLTVS AGKLSALLCASCQKGG/VGEM ANGNGERNHKQIGDTVLTTPPQ HYRKIYQPIAARSCIRCVCES

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16026	46394	A	16117	1	1782	MAGIRSTLIKEKNMITNYEATV VTDDIVHEVNLEGKRIGYVIK TENKETPFTVVDIDGPGSNVKT LDEGLSLLLSLVSIIVIMKLFYQ YEQRFGMRSTSLNIVIGSNTIAI YTTHRILVEIFSLTLLAQMNAA RWSPQVELTLLLVPFVSLFICT VAGLLNLTTVMPEQYRYTLPV KAGEQRLGELTGAPCATLVA EIAERHAGPVVLIAPDMQNALR LHDEISKFTDQMVMNLADWET LPYDSFSLHQDNLYLLVAFQPFY QLTDDAAVGVLIVPVNTLMQR VCPHSFLHGHALVMKKGQRLS RDALRTQLDSAGYRHVDQVME HGEYATRGAALLDLFPMGSELPY RLAIGVNVAQAEVLNLESGAK QVLQETFGYQQFRPGQEEIHD VLSGRDCLVVMPTGGGKSLCY QIPALLNGLTVVVSPLISLMKD QVDQLQANGVAAACLNSTQTR EQQLEVMTRPRIGDGTGALRK RVAQLAFKNQPMVMGNWAQS ILHGGVIASALDVAAGLVCVGS TLTRHETISEDELQRQYRGWGP LIFALIICAQAGASVLLLLVACC VQAIKSPSPALNYTMKNSFILPV
16027	46395	A	16118	380	1431	TALLIRDMPPYVEAYPNENLTT VMPEQYRYTLPVKAGEQRLG ELTGAACATLVAEIAERHAGPV VLIAPDMQNALRLHDEISQFTD QMVMNLADWETLPYDSFSPH QDISSRLSTLYQLPTVIQGGVLI VPVNTLMQRVCPHSFLHGHAL VMKKGQRLSRDALRTQLDRAR YRHVDQPAHAGGKVLEMIVVG IATWLGFLFGLNYSLLAVLV GFSVLIPYIGAFVVTIPVVGVAL FQFGAGTEFWSCFAVYLIIQAL DGNLLVPVLFSEAVNLHPLHHR EQIGGNKMADRQCRKIVCATV RQLPEGGRGEMANGNERNHK QIGDTV LKATGSKQGDGQNHG
16028	46396	A	16119	1	940	

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16029	46397	A	16120	114	1380	NRVHCRRCSSGGDTGVSHLKG NVKYRYELTDSVGVMA SLGFA ASKKSSTVMTGEDTFHYESLRG RYVSVMAGPVLQISKQVSAYA MAGVAHSRWSGSTMDYRKTEI TPGYMKETTTARDESAMRHTS VAWSAGIQINPAASVVVDIAYE GSGSGDWRTDGFIVGISGVLKD GTGKPVQNCTIQLKARNSTTV VVNTVGSNPDEAGRYSM DVE YGQYSVILQVDGFPPSHAGTIT VYEDSQPGTLNDFLCAMTEDD ARPEVLRRLMLVEEVARNAS VVAQSTADAKKSAGDASASAA QVAALVTDATDSARAASTSAG QAASSAQEASSGAEEASAKAT EAEKSAAAESSKNAAATSAG AAKTSETNAAASQQAATSAST AATKASEAATSARDAVASKEA AKSSETNASSADYAAS
16030	46398	A	16121	165	299	GILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW
16031	46399	A	16122	1	388	MGSKSWVTQKGPAAQSSQV GRVKQATATDTGRTRDSHMER PKCSKGYLCLPYMALQQHHLL SDVTVRGFVAGATNILFRQKHL LSDAIVEVRLCGSDLVLYGTST PKNLIWVMVHVVGHRPDRR*C CCNA/SVRQTQISLRAFGSFHM AVSGSSSVSGCSLFHSAHLTAL CFSWPLLCPYTLGPH
16032	46400	A	16123	130	414	
16033	46401	A	16124	1	387	
16034	46402	C	16125	1	1611	
16035	46403	A	16126	318	401	
16036	46404	A	16127	519	658	YPGSLLASKGTKLDGE*V*RS RLQKVGNNKLLQAKGACSNPT QES

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16037	46405	A	16128	1	1837	FRPRQLVAAKPSVFADVQSMES VGTGGGAEAEAGGVRSRGLCPT RMLPGLAAAAAHRCSSWSSLCR LRLRCRAAACNPDRQEWQNL VTFGSFASNVVPCTHPYIGTSLQ EKLYSTNVHKEGQGSHTLREE KVPSFVTAEGVGAKLISPLKQE PLQVRVKAVLKKREYGSKYTQ NNFITGVRAINEFCLKSSDLEQL RKIRRRSPHQDTESFTVYLRSD VDAKSLÉVWGSPEALAREKKL RKDAEIEYRERLFRNQKILREY RDFLGNTKPRSRTASVFFKGP KVVMVAICINGLNCFFKFLAWI YTGSASMFSEAIHSLSDTCNQG LLALGISKSVQTPDPSHPYGF SNMRYISSLSGVGIFMMGAGLSW YHGVMLLHPQIESLLWAYCI LAGSLVSEGATLLVAVNELRRN ARAKGMSFYKYVMESRDPSTN VILLEDAAVLGVIIAATCMGL TSITGNPLYDSLGLGVGTLLG MVSFLIYTNTTEALLGRSIQPEQ VQRLTELENDPSVRAIHVDKA TDLGLGKVRFKAEVDFDGRVV TRSYLEKQDFDQMLQEIQEVKT PEELETFMLKHGENIIDTLGAEV DRLEKELKKRNPEVRHVDLEIL
16038	46406	B	16129	1	1065	
16039	46407	A	16130	1248	1658	PLALPEFISKSWKERLTDTTVLF LKARRQSLCLQIGGDPLES/ILQ AFCVLSVAKESQLYTYLHAIMR TLKSSIARGARTFQSTSDGT VKS RPSKIIFLRLHDFRFSALRHL DPKKLDLGDGSRSAHRPDRFF
16040	46408	B	16131	969	1026	
16041	46409	A	16132	339	432	RYMVLSEFRSMQTGITKWKERL L*NCRKRE
16042	46410	A	16133	3	443	HTWNSDRTMYLQRRHIFFKNC FWLQAGYSLGAPSWRSLVTWV QIIFSDFYRKTLCSNSPLF*SLC QRQSTLLGTLIFCSYASSPEAI NSAAPRVRSRTPDKARSPRG VGGAEGNGSRDTEPKGGRPLA TPSQGERLMAGTVTK
16043	46411	B	16134	34	1426	
16044	46412	C	16135	62	217	

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16045	46413	A	16136	1	609	MIPVSEKSKIGQLNLMLKGKKT KGKKVALVPAAVKKQEAKKV VNLLFEKRPKNVGIG/QDIQPKR DLHARFVKWPRYIRLQQQTAIL D/QFIQALDQQTATQLLKLAHK YRPETKQKNKQRLLAIRAEKKA ASKGDIPNKRPPVLQAGVKT NLVENKKAQLVVIAHDVDPVE LVVFLPVLHCKMGVPYCIKKGK ARLGHVHRKT
16046	46414	A	16137	1	824	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRLQRQRAILYKRLKVPPAINQ FTQAL\DRQTATQLLKLAHKYR PETKQEKQRL\LARAEEKKAA WPKGTFPTKRPPVLRAGVNTV TTLVENKKAQLVVIAHDVDP LVVFLPAL\CRKMGPYCIKKGK ASLGRIVHRKTCTTVAFTQVNS EDKG\ALAKLVEAIRSNYNARY DEIRRHWWGGNVLGPKSVARIA KLEKAKAKDLATKLG
16047	46415	A	16138	1	799	
16048	46416	A	16139	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCAIPNP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFLVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGRFPV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16049	46417	B	16140	1	1323	
16050	46418	A	16141	1	1356	
16051	46419	A	16142	1	1524	

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16052	46420	A	16143	173	2310	QQWASRTRRWRS LITLTCVDA RSQHDYIALSRLFHTV MLFDVP VMTRLMESEARRFIALVDEFYE RHVKLVVSAEVP LYEIYQGDR L KFEFQRCLSR LQEMQSE EYLKR EHLAAKPETVKRDWYVVDAT GKTLGRLATELARRLRGKHKA EYTPHVD TGDIIVLNADKVAV TGNKRTDKVYYHHTGHIGGIK QATFEEMIARRPERVIDNRRGS LRQAGYA IHDGGNNSMAKNTS CGVQLRIRGKVQGVGRFPFVW QLAQQLNLHGDVCNDGGDVE VRLREDPETFLVQLYQHCPPLA RIDSVEREPFIWSQLPTEFTIRQS TGGTMNTQIVPDAATCPACLA E MNTPGERRYRYPFINCTHCGPR FTIIRAMPYDRPFTVMAAFPLCP ACDKEYRDPLDRRFHAQPVAC PECGPHLEWVSHGEHAEQEAA LQAAIAQLKMGKIVA IKGIGGF HLACDARNSNA VATLRARKHR PAKPLAVMLPVADGLPDAARQ LLTTPA\AP IVLVDKKYVPELC DDIAPDLNEVGVM LPA NPLQH LLLQELQCPLVMTSGNLSGKPP AISNEQALADLQGIADGFLIHN RDIVQRMDDSVVRESGEMLR R SRGYVPDALALPPGFKNVPVL CLGADLKNTFCLVRGEQAVLS QHLGELSDDGVQM QWGQRLC RMGTQVLPPTFNIEKKVQSARY
16053	46421	C	16144	1	184	
16054	46422	A	16145	85	416	
16055	46423	A	16146	96	570	

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16056	46424	A	16147	2	1690	CCCCPCCPCWGRVSGSVAGG PRQGLGLPLSLCISPGSLNKDPS YSLQVQRQVPVP/EGLCVIVSC NLSYPRDGWDESTAAYGYWFK GWTSPKTGAPVATNNQSREVE MSTRDRFQLTGDPGKGSCSLVI RDAQREDEAWYFFRVERGSPL TQKPDVYIPETLEPGQPVTVICV FNWAFKKCPAPFSWTGAALSP RRTRPSTSHFSVLSFTSPQDHD TDLTCHVDFSRKGVSAQRTVR LRVASLELQGNVIYLEVQKGQF LRLCAADSQPPATLSWVLQD RVLSSHPWGPRTLGLELRGVR AGDSGRYTCRAENRLGSQQQA LDLSVQYPENLRVMVSQANR TVLENLGNGTSLPVLEGQSLRL VCVTHSSPPARLSWTRWGQTV GPSQPSDPGVLELPPIQMEHEGE FTCHAQHPLGSQHVLSLSVH/S PSTAAGPLLLLGG*GSALQLLL/ SRPARPPLCAGGLGRSCWRGTA VRAPSRSPPAQPGPGPTAP*AS MEGSAPASGS AVRPGTSTGPRV ALSSSCYQGSWSMGEDLAWGL PWELASLPCSLSVPALSSSG
16057	46425	A	16148	3	1578	VTQLLCTSNRRALEFALFPGR RFRPVATNHQSREVEMSTRGRF QLTGDPKGNCSLVIRDAQMQ DESQYFFRVERGSYVRYNFMN DGFFLKVTGMEWGGNPCLSH WGGTLGTAYGLSREGSQGPLQ HKN/HPTTVSVPALTQKPDVYIP ETLEPGQPVTVICVFNWAFEEC PPPSFSWTGAALSSQGKPTTS HFSVLSFTPRPQDHTDLTCHV DFSRKGVSVQRTVRLRVAYAP RDLVISISRDNTPALEPQPQGNV PYLASPK\GQFLRLCAADSQPP ATLSWVLQNRVLSSHPWGPRP LGLELPGVKAGDSGRYTCRAE NRLGSQQRALDLSVQNPPENLR VMVSQANRTVLENLGNGTSLP VLEGQSLCLVCVTHRQPPSQAE LDPEGTGSELPALRPRGSWSW LVGSSGARRRVHLPRSAPTGAP RRTLLPSPCTTPRSCWAPPAPGR LRVCTAAAPPRPARPPLCAGGL GRSCWRGTAAQGLLRGSPPAQ PGPWAQTASPEPSMEGLNSGPQ

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16058	46426	A	16149	90	1029	MLLPLLLSSLLGGSQAMDGRF WIRVQESVMVPEGLCISVPCSFS YPRQDWTGSTPAYGYWFKAVT ETTKGASIVAPNPPSREVE MST RGRFQLTGDPKAGNCSLVIRDV QMQUESQYFFRVERGSYVRYN FMNDRVLALKVTALTQKPDVYI PETLEPGQPVTVICVFNWAFEE CPPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPDHNTDLTCHY DFSRKGVSQAQRTVRLRVAYPP ETFGISIFTVTNTPDPENLRVM VSQANRTVLENLGNGTSLPVLE GQSLCLVCVTHSSPPARLSWTQ RGQVLSP
16059	46427	A	16150	270	1001	CCCTVYRAFIRKRLKRSSDSVY RRKNPSASYDRDAEASLA AVK SGEVDLHQLASTWAKAYAETT LEHARPEEPSWDEDFADVHD LIHSPASETLLNLEHNYFVSISEL IGERDVELKKLRERQGIEMEKV MQELGKSLTDQDVNSLAAQHF ESQQDLENKWSNELKQSTAIQK QEYQEWVIKLHQDLKNPNNSS LSEEIKVQPSQFRESVEAIGRIYE EQRKLEESFTIHL*AQLKTMHN
16060	46428	A	16151	60	648	LAMSLSHLYRDGEGRIDDDDD ERENFEITDWDLQNEFNPNRQR HWQTKEEKGS LQRKEFFDLV GLCFCA YRARDYSAPVNFISAG LKKGAAEEAELESDGFLRFFFI LFFH*LSFDFSFLQGGNFKPSQK GFAGGTSFMDFGSWERHTKG I*FTYMNCCDRKTLFFFC*NSSG IINPIEAKQRKGKGA VGAYG
16061	46429	A	16152	237	450	LAMSLSHLYRDGEGRIDDDDD E/REENFEITDWDLQNEFNPNR QRH\WQTKEESTYGVWAERDS DDERPSFGG
16062	46430	A	16153	12	85	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEIWCEEDERKMARE FLAEFMSTYVMMNIHMIVEKN T*SPFCPWARATVSGPPVAPKW SPGP
16063	46431	A	16154	49	481	
16064	46432	A	16155	20	248	
16065	46433	A	16156	493	728	VSFLSMSSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMAREF LAEFMSTYVMMVSGRAARSG WALPGPSMTSPF

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16066	46434	A	16157	136	306	ASSSREGLTKFAKFTKFTKIHQI *ITLTSYSIKSLEKVCADLIRGTK EKNLKVKGPV
16067	46435	A	16158	563	1216	MMFWPELQPRVCWMGLSWVN HQNGRRRRKNQKHH*QKVPLL IMASK*KLLEFLNRETKASANL SETVTKPPLPQKNTAQVGASSQ TRKPNKLAPHPAVPAFVKNTCP SRPRERQTHFLRPRPEDRMVAL KPIKIVLPPVFMFSSPQGIRSR MPTQHLYCRWVAPKALVPTCL PTHSLSRKEEKPKRMDTPFLPY SRPPSGEWLLIVLWFFNRSQRS
16068	46436	A	16159	1	143	
16069	46437	A	16160	40	230	KQAAQPAVATLSGPLPHCGSFV LSLFAINLVAHSLGPHCLYEL* HSPRRSTASLREGPRLHS
16070	46438	C	16161	233	319	
16071	46439	A	16162	290	472	EFLDTFCYIPKVVDQ*D*THKQ QHNVAIIPHVSSAQMSTFC*RT MPTISDDPWHMASMRAV
16072	46440	A	16163	3	553	
16073	46441	C	16164	270	608	
16074	46442	A	16165	2598	2943	HSPRGSAASFLKSVRPRTHQFR TQEDRLSPGIQDQPGQPSNTPSL QKL*N*LGVMGRICSPSYLS*P WREDHLSPGG*GCSEP*LHHCT PAGVTKSDRVSKNK*INKNKIN NDNQ
16075	46443	A	16166	2	58	
16076	46444	A	16167	218	342	
16077	46445	A	16168	734	872	
16078	46446	A	16169	1233	1706	CLVFWLLYYPGQLPFLHLLPHS LGSGQQSSEESAATPSLAEGRR EAAFRCPAGLARQAWRPHAR LPGPAAPLAAPSLAPLPTGRSG RWLPMCAASC*SPSPAMSVYP QRRLLGQGAEDSEGPPVSRGC RAPGPQRPLAAPGEQTAARTQ AICLIW
16079	46447	A	16170	598	1159	CRQTGVKIYDVWFFWLLYYPG LQLPFHLLPHSLGSGQQSSEESA ATPSLAEGRRREAAFRCPAGLA RQAWRPHARLPGPAAPLAAPSL APLPTGRSGRWLPMCAASC*S PSPAMSVYPQRRLLGQGAEDS EGGSVSRGCRAPGPQRPLAAPG EQTAARTQASVYLLPHSPPLL SALHIHLLPPS

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16080	46448	A	16171	834	1185	RSLFRHHRPSAAFPRTPCSDCPR CSAGTMEDCWLVLGSPELR*KS LHERPFHWLPSPSRARCCLPRSE TPAGVPPRPGRRARRRPRGTS RPPPASSRGRGALGSLPASEPLP ARAT
16081	46449	A	16172	78	478	VVKNSLIFLVNQVLNSRDFHVF FKTT*NCPAQAHATAALYQGLGP ACSQRASHWMSSSSKRSSKSLK KSA*TAFSLAAKSIKSPGAASRL GNGKARLCQVRFPKÉQVISALQ GHYPHKRRWVRGNRLKLEST F
16082	46450	C	16173	1323	1656	
16083	46451	A	16174	77	231	RSCMTLMWPRSTP*FGLMERR RHMFDWLLITMLWMLPTKLGS SKLSPAA*F*SSCLIL
16084	46452	A	16175	1	255	STSKGEKPAIRAMAHFLEPHPIN FLGARARKADLSPT*YHFFKHL DNFLQGKCFHNQQDAENAFQQ FFKSQSTNFYAGSSSFVTEV
16085	46453	A	16176	690	1020	SPVLQRAFKNGPGTANERTVQ WWFKKLCKGDESLEDEEHSG* PSEIYNNQLRAIFKADPLTITRE EVFPHPLYSPDLSPTSYPHFQHL DNFLQGKCFHYQQDAEHAFQE
16086	46454	A	16177	1	383	MHRSCGSDAYALLGERSVSLR RCAVRHAGGIRSANADISNDKA GEKPARRKTKGSCPTLIGAGLV QSLSPIQSAADAGELGSNGILPD VESLRIPVQYLANLLTAGDTKP VLRALKRMLAMRHYKRAETV DGKVDTRALEEVGLTEAQAQE MYRYLAIANYEDRFVVPSSHRE LAREAFPEKNGCGFTFGDGCH GSDTKFNLFSRRIDAID*PCPD *RWTGTLGLPASGLFTRFIVTY VSIRTSDTSSMPHSTPSQA\TERS PNNA*ASLQTC

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16087	46455	A	16178	740	1977	SASASRSLEHITVTPSTGILTCFP STTPFGLAL/GGTLGLPASGLFT RFIVTKSSIFSVTPLVQPKPSCN GYSPPPPVPHRREFQRRVIAEK IFCQHHRAKLNRLEERQYLTVN FRAIAQRVNIGITGLQITIDANA AINRQPGASCQGRFPGAVRCGG NYRIHFDIALAVQRWPECQNP FPAPVTEISTADERPSPLTGCLQ RLVTFGSVIFGIINMIMRLAPIGR FGAMAFITIGKYGVGTLVQLGQ LIICFYITCILFVVLVLGSIKAT GFSIFKFIRYIREELLIVLGTSSSE SALRRMLDKMEKLGCRKSVVG LVIPTGYSFNLDGTSIYLTMAA VFIAQATNSQMDIVHPITLLIVL LLSSKGAAGVTGSGFSVLAATL SAGGPIAGSGSGADPRYSTALC
16088	46456	A	16179	757	1037	FLDPSPEPNVTVPSTGILTCFPS TTPFGLALGVDSPCPD*RWGT LGLPASGLFTRFIVTYGVTPALD TGLM*LRSCGPPRSML*HRTQQ KC
16089	46457	C	16180	1	313	
16090	46458	A	16181	178	290	LLLGLASEN*HCPPIASEAP*TTT DTELWVTLTVEGKS
16091	46459	A	16182	1	251	
16092	46460	C	16183	129	1136	
16093	46461	C	16184	117	364	
16094	46462	A	16185	636	748	LLLGLAAED*RCPIASEAPQTIT DTELWVTLTVEGKS
16095	46463	A	16186	37	444	DPQVGKLLQHCPARIKMTVTF NNHRKPQLSKFHQLYSED TQQ QIIREFHLVFKRDENVCKFLGT IWSLTGKLNRGQAPLFGIFHT VELHLEIRSSCQGIVHF*LTCFSS CPCSGPFVNSPFYLPLESGHSHK
16096	46464	A	16187	179	422	LQLGPKEKQSRVLGSFFQVPSC GKMGCSSGSRHIGFPPAPQLSG GPLDPRQGSISEMK*TE*GGY PKGSPQHYSRKHQGS
16097	46465	A	16188	1064	1374	KEQCLQALSSVKNREKRPSSFH PICWSAVSFSVGREGDMWPLAP FPDSENVAGAGALLRLAALPG LSWALRPPPPAPVRSWATSGW* GGQGREPGRGIPPRW

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16098	46466	A	16189	44	515	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGEFWDSCVCTFR NSAEAFKCSICDIVRKGTSTRKP RINSQLVAQQVAQQYATPPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSDI LKDPPS\EANSIQSANATTKTSE TNHTSR
16099	46467	A	16190	382	795	DSGRSWKRLSPPRPMCMTWA LGSYPRLCFVSPPFSCSLPLPSL FPHSPLLGRPQRQAKPAADGEF WDSCVCTFRNSAEAFKCSICDV RKGTSTRYLKICVTWVVVVI*Q VFIEHTAICALGVQWYKDRPGP CSYGA
16100	46468	A	16191	2	343	
16101	46469	A	16192	472	625	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSQWKFP
16102	46470	A	16193	343	693	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNIHRYNSENLASL GSTQIPLKAFTNPCHTSFTLCKH MVIQAHQEKQLIQILYLGDLL ET*HFQAFWQALDENMTLLESI TGFEFG
16103	46471	A	16194	340	534	TAIMNDMVTI*TRKFMTNQRLO RKQMVIDVLHPGKATVPYLLI EQLRFARHCAWYGGDSDETSH
16104	46472	A	16195	80	552	PIPHLEKFHAPTRRTFRGNQM/V IDVLSPPGKADQCP*AQEIPGKT *PKMYQDPHPDV\VFVWIPELH FGSRGKTKLAFGNDFMTSLGFI AKEKWNPKHRTLQGHGPGME/ ERKKTSKGKPTERERQGTGLEG KFQGGGLAKGPFFGAWAKRRNE VSSS
16105	46473	A	16196	248	474	YPETPESPTQLSSGQPHREQPPE MPESPTQPSSGQSCQEQPPETPE LPM*PCLAQPSQKHKMIKG*QNN KHENKM
16106	46474	A	16197	223	669	PRPSLPACSPWRIVDDCGSLKS WKRVCQWLQPCPNALPSCLG PLRCEFSGFPRN*LGLGSTTG SF AVWGGLFSTIDCGLVRRPGPSP FHPVLPALTSVSLPPTPPGGPLA MVGSAMMGGWSGEWEILHLA SSTHPYPSLPSPAPPFLE

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16107	46475	A	16202	188	484	HFGRVEVGRSQGQEFQTRLAN KAKHHLY\$FMNESQISPIGC*P M/PPKLIRKVHREKNCAGRNL T R\QRSGFKTGPPGPPARSSPTLP PPPPLPRLPRRP
16108	46476	A	16203	36	409	
16109	46477	A	16204	651	893	NTSVKNNFSFMNESQISPIGC*P MAPKLIRKVHRERNCAGRNL T RAEKRLQTPGLPVPPARPS SPSS PPTPPLPAATPGGR
16110	46478	B	16205	13	441	
16111	46479	A	16206	3	205	NSSNSFSIQFCSFAGEELCSFGG EEAFWFLEFSAFLRCFFLIFRDL STFGL*CAPLEEKRHSGFWNFQ PFCAAFSSSSGIYLPLVFDAGDL QMGFLCGCPFC
16112	46480	A	16207	23	841	EKAKEFRRAEEKKEVPAVPET LKKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKH\YHK EYRQMYRT EIRMA\RMARKA\ GNFYVPA\EPKLAFVIRIQRVS MGVSPKGSERCCKLLRPVKIF NGNLL*KLNGFRLTML\RIVE PYIGMGGTPILKSVNELIYKR\ YGKIH\RKRIA\LT DYALIARSLG KYGIVCMEELNHEIYTVGKRFK EANNFLWPFKLSSP\QGG\MKK KTTHFVEGGDAGNREDQINRL HRRNELTRLTWIFF
16113	46481	A	16208	1137	1200	PPSAPAPG*LRPPALSSGSP*PPS APAPG*HAPPPSAGTPPP

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16114	46482	A	16209	1	1480	MNECRGVEITTVCSSEDWIQRHL PGAVVPLKGEENVGVATEDHY QEDSFGFGLRGTGKPLKLEKSR PGAVTHTSPSDGLTQYVPDSLT AMPAAAVVIWVIRPGCGVQQQ IGFLRHSNIDDIRPRTIIRAVAPV KLHGIRIKMASFTSATRLTDEQ VITAPADSGIVIPRFSNWNVAG GKTHLTHKDSHKLKVKGWKK AFHANGHQKQAGVAILTSDK:T NFKATAVKKDKEGHYIMVKGL DQQENITILNIYAPNTGAPKFM KQLLIDVRNEIDSNTIAGDFNT PLTALDRSSIQKVNKETMDLNY TLEQMDLKDIIYRTLHPTTAEYT IYSTVHGTFSKIDYMTGHKTSL NKFKKSEIISSSLSDHSGIKLEID SKRNHQNHANTWKLNNLFLNN RWVNNEIKMEIQLFELNNND TTYQNLWDTAKVVLRGKFIAL NAYIKKTERAKKTIYSHTSGI*K QEQTCPKPSRRKEIIRAELEI TTKKTIQKK
16115	46483	A	16210	32	398	ASERLGGPGSPG*/PVNPRTDGS GAAWLSQRAQCTQSDPRV*EV PEHLSPSTPSQEYRGLPALPHTS RPSHCLPACPLPSRTQPWVPVK PGPTACRGFLQHSPTPGSPSP*S FQGSSWWDIDL
16116	46484	A	16211	2	681	AEPWDEGGDGVPCRPVSSGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQQQIP GPRLVLQFVQQAGVCGPGGNA VYSTPRDSASLVSGRTSMLFLR KFGKTWRKGKLHQRGPPASPV LGRECENWG*VIGRHPAQSS/SGP ACAKDAAELGAAMPGLVSGPL GAALQPRGAGVQLGAATGPGS CSK/RGSPKADAR/PRHSQEPGQ VPPHAPQGPGLS

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16117	46485	A	16212	102	1005	VQWSARPDATPLSTEP SLADYP EAQSHIPRRGPRRPEKQGRGGK PPRALGRERAGGGSRGPPASPD PLSRPCSQAPPPGASAGA*DAP ACRREAGSDGVPCRVSSGSV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQQQIP GPRLVLQFVQQAGVCGPGGTD GSGAAWLSQRAQCTQSDPRV* EVPEHLPQVDTHKGELYQ*PGG RDGPGWEEPPQCGMGVSEAHG GAGGPGEAGKGR LQRKFGKT WRKGK LHQRGPPASPV LGRPR PE*VLLRCD*EG*PPSAGQLL
16118	46486	A	16213	378	494	GTACLQIPQTQGV*QRGFLAEY IQWQLRMRS GSIPVRTG
16119	46487	A	16214	18	894	SVGSLCCLQETPGLRAFGVPWR SAQRRWPRRSAASLLSLVLPGR AHSRPTLAPGPLEAQPPPGG SALAQHSRTAPAGTSAACLWP VSEQGAAPMCQVTRPPGSQAP CSQPSAHAHKHLTTGSSSPA EA SALPRA*TGSRWETKSSERVSSF SA*GTACLQIPQTLRRRTG*RQ VGRRLPGSGGFDGCSIFS*S*PV TYSLRVSATSSNEATQLGTT*S NSIIFEFCSAQSTAVRCRLFST*T DAPWSRSSSTTKTCFSITASCSA VLPLLEALMEAPCPC LACSSA S
16120	46488	A	16215	340	582	
16121	46489	B	16216	93	711	
16122	46490	A	16217	1378	2081	LSRKKPNWPSSMPWYQFS LIWL MSVK TSPSWKPSSPWFSGWKS YSTLQLGWSRGGMLLLGVQM DLLEDWKGD EAA ILGTVVQ GK PPLDCSGSPRSK\APRTWAYTPA WGV RKL PASCA*ASLPARPGSA WPASGRSAAPPP/AARS*LICSM SVSRRLCMLVSATSLESSNFSSA WRSSSSGILPCRFSMSRESFTSA RCFMDSPASSSASLKLDSLPS SF WWRI RHSLRSPSDCG
16123	46491	A	16218	191	288	
16124	46492	A	16219	67	209	
16125	46493	A	16220	96	341	
16126	46494	B	16221	1	1185	

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16127	46495	A	16222	192	703	AMPSCTRAGLAFVCHVRRRGC LSCRGVIPASSQCLFPAPMGTT ATLRMENVDVKEEWQD*DLPR PLPEETGVELLGSPVEDTSSTSN TLNFNGAHRKRKTLVAPEINISL DHSEGSLLFDDFLDTLDDLDIN VDDIETPDETDLSLEFLGNGNEL EWEDDTPVATAKNMP
16128	46496	A	16223	8084	8251	TAGDERHGPSRVRMFRIKGRRL GWMGPLGRGKR*VTRGMWPG KGPAYPGSSASSF
16129	46497	A	16224	645	1317	WGASRLREPPSPRTLHSPRPGP ASAPPLRPLQNRTSPSPAATT APPQPSEASRLPA*KAKPKPHPP SAPRRGGSPPRHSAQPACGRRR PRSVGGAAPYAAERRNSAPQGP PQLRRTAEGGKRPSNPRQRSH PRQRGDSLP*LGPWSRDRRAGR DGRDGSAGGTRRSPSPRYASPE PLGPAAPASPAGASWTGGPGRR ADDSWRASVFQAQSSACFPRA RVL
16130	46498	B	16225	72	378	
16131	46499	A	16226	151	372	GGQHWAKAWRQTLGPEMPER TGACGCGSL*PFTTPPPAICVD GTFHKYVFTPDGNCNREAFDV YLDICDDDDF
16132	46500	A	16227	182	1083	HPGPCPDHEQVGSMLVEDPV SPGLPLTLNLGPDNPPTCPAVLI WDDAREGKD*EG*SSLGIPPPP HGHPVLC DTHRIVIVLKNRQLC PF*DAASSAAHPTPHLHTLGL CELP CGLLAPSLHTTPTS DSSL PQDLASTKPGTSSAPFTINAHQS DIACVSLNQPGTVVASASQKGT LIRRVCMVGW*PHTT*HVGITA DLSSSINFSDSSFLPTLPCPCP PAHLPYLGLASAAACRLARVGK VGPMIGQYVDSQWSLASFT PERTGACGCGSL*PFTTPPPAI CVDGTFHKYVF
16133	46501	A	16228	202	517	GVHCHGFSAGQAAGQEPTSVH ETLLPHQLQDQSALRGGVQNR QRHQAAEGPGERAGAAVSVGL GEPQCH*VGAGRAARGPPILEV PAGGADAAAECPAGPHGCGG

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16134	46502	A	16229	141	633	WENARPEPSQGDRLRAASVVSPR LPPRKGQGLGYFGRGAGHAH GTAGQGASESETLLPHQLQDQC ALRGGVQNRQRHQA AEGPGER AGAAVSVGLGEPQCH*VGAGR AARGPPILEVPAGGGDAAAECP AGPHGQNARGQQSGISQLRHE REFLLRFPQAPQL
16135	46503	A	16230	65	466	VVFAEAAEASLMTSGVGGGAA QSPRSRRGGWWPLGEMPYANQ PTVRITELTDENVKFIIENTDLA* GYRGKRLAALGRGRPKPGPRG RGRGCSGWGGGDVLPCLPCT RALALGACGAGPACRGCSAFTP LGF
16136	46504	A	16231	42	491	SGGKEAQGQSGTDQTVVVLN PTYYSNDIPYTFHQDNNFLYL CGFQEPDSILVLQSLPGKQLPSH KAILFVPRRDPSRELWDGPRSG TDGAIALTGVD EAYTLEEFQHL LPKMKGNKWEQKSHYKPDWD *NLSCLFRQVLN FVIVAPP
16137	46505	A	16232	531	976	NQSIVRVNVDNLSIPVIAAELG VRKPSEKGMQQKKTKDLGFR AGKESKTEWRK*GLQDMASQ MFASPLK*PVTA AFHDSSMPSS LLQIEMEQLFEARLQLDSKSE ARRNQCD SMLLRNQQLCSTCQ EMKMVQPRTMKIPDDPKAS
16138	46506	A	16233	2	419	SFLLSSSYTRTKSILRWPSLKKR ESGFPLNSSNSGVRKSC*LSSDP KSGTIVCPFSNTISPSSSSSSSI CSKTFL\PSFSCLPQKAAPNLAR SWGLPGSRTARLSQGPDRGPRG VCRLGSGAAEPSQRRGKPSRDE IV
16139	46507	A	16234	27	792	INSIRILSTCKMGHPRFAPQAPG PLRTSEKGPVLPWGNSSSDH SSEPSVGFYFNEDSDGSHPV LQ MRACSPDPAQGARPSAEAPGQP *HSASRGSDPKVASEWRLPHAE ASPQLPGFSGAASPAPKHSCSSF SCLPQKAAPNLARSWGLPGSRT ARLSQGPDRGPRGVCRLGSGA AEPSQRRGKPSRGTHRPEPRAG GRLSPAERSPETEHAQCGRRG S LRND*TSPVLRGAQKEVGRRD CRGSSAILRAGEL

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16140	46508	A	16235	343	969	YDKTRLFNTVPLPPPHKKIHKII QDIKGEILRAFPLRTGTHRCPL SPLLFNILLEVLARAIQEKEIKS IQIGKEEVKLSLFADDIIIYLESP KYSSRKLQELIKEFSKVSRYEIN VHKSVALLYTNSNQAENQIKKS TPFTIAAKNKIKYLGIIYLTDAK DGYKENYKTLMKELIIDDKNKQ KYIP*SWKGRINIVKTITLSTAIY
16141	46509	A	16236	15	403	ICESRRGRVCSALVRRYVGE GKAGSICMPQAPDKSSRWTLI RPPRFPPSPSCSPGKEAPGGSEL /SPLPHAWSPDPVSPLGDRVTA NPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQ
16142	46510	A	16237	19	454	KGKSLCTSPKVCRGRLRKS PETKVTHICMPQAPDKTSRW LIRPPRFPPSPSCSPGKEAPGG EL/SPLPHAWSPDPVSPLGDRVT ANPAEIR*EPGPQSAAPGFREQR RRGQMG*IWYLTPTPPGGQRPS SAASPRGFPLV
16143	46511	A	16238	276	898	MKGTAPWRCGRVCSALV PKVCRGRLRKSRLPETKVTHIC MPQAPDKTSRWTLIRPPRFPPS SILQSWEGGTGWLRTLPLPHA WSPDPVSPLGDRVTANPAEIRIL GEDPESPEETLNLILRTPIPKPR GNAKSH/PGHRSR*EPGPQS AAPGFREQRRRGQMG*IWYLT PTPPGGQRPSSAASPRGFPTNN SSRLPAEPE
16144	46512	B	16239	177	284	
16145	46513	A	16240	253	416	CCPVLPGPWAAGHPGD*PDGP G**AQPHKECRGGFAPLQVTLG PKQPSGKRVNK
16146	46514	A	16241	1401	2246	NIYLLLQVFDWGLQGILGVSN PSYSIRRCYTAGQSPRLPDPGR F*G*EESTGEQADCP*GSHRRSR SAAGAADGGLDPGAHTITCGC LSHRGRLVPAQKSSAAL*APSG AKPAPTVAHVDPARQG*GGQ ARGQGARQPHSHREGLCEC*A VTTL*EPHLRNSSAPA*ERGPQG IRVPEGQSGDQESSAEHHGGD PGGGKPRCGQHQEPLGAGWPS PAGVEPLLGLQKGSAGAP**E PQRGCVDAAQQSSPGA VPEAK AIAVQPPAPDVFAAVARCD

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16147	46515	A	16242	30	461	IPAETTC/EPAKHFCFTDGSN GKASYSGSKGKVFQTPYISAQK VELVAVIEVLTAFDMPINVISDS SYMVHSTQLIENAQLRFHTDEQ LIHKTCKGGRDYGTAQTQLNL ALLTFHFSSLPKGQMLPAAEQH LQKPAAKTQAE
16148	46516	A	16243	1	573	
16149	46517	A	16244	1	1689	
16150	46518	A	16245	1	1416	
16151	46519	A	16246	27	779	KNHFNWKDKFPPRLRISFLMVA TVKPPEPTPLKRLTEKPIWIEKW PLSK*KLEALEKLVTQLENGHI APTFSPWNSPVFIKKKSGKWR MLTDLIAINSVIQPMGALQPPGL PSPAHPKNWPLIVTDLKDCFFTI TLAKQDCEWFTFIIPAVNNLQP AKHFCFTDGSNGKASYSGSK VKVFQTPYTSALTAELVAVIEV LTAFNMSINMISDSSYVVHSTQ LVENAQLQFQTDNDFIYPVANSS
16152	46520	A	16247	2	394	
16153	46521	A	16248	63	1123	ELDVMGLPEERVRSRSGSRGQE EAGAGGRARSWSPPPEVRLVSL LRLNMSQKINDIWASISVAEFW GDIKEFYWKTPCPGPFLRYNF DVTGKGFIEWMKGATL*LCLF LVWGRSYTPNHWFVLVCLREG NEPGGQLDGREQVAARRVHGS YSVLLPAGIQKGDRVAILSNPFL HSLNPWGFLSLRLSSLP*GPM DIVPTRQHGAY*GLECLLLPKD MDMGGSCQVPFEPTRLPL*AFL FSRGFPVRCCIVVKHLALTSSH SLYTWTLQGQGTGVSCPHLELF TVLPCPSLQISWNQIDLWWHE LMQEAGDECEPLPSLHLVVSRG GHKTLTCSPPFPQGVVHTVGGY
16154	46522	A	16249	35	219	ALGVHFLVLPVGDGSRVDCG QQLAPTSSACTTSGLSISRCSGI WRMNQKKQVRGSPKE

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16155	46523	A	16250	1934	3213	WPAPPSQVPSLDYGLALWFDA YVSVHGTQETSQCSPESLTPPR LCGLRILQPYAERIPVVATAGIT INFTLRGYAWPNGALPASTVPC GFAACPGEF LCSVNGRQAPAGS SGFLPPVPSLCPHTVCRATFQCK EDSTCISLGRFPWGSETHLLCPA PIPSVPGVPCGTFTFQCEDRSCV KSLASPLPLLLCPPHLLPSPD CGLOQPSSRIVGGA VSSEGEWP WQASLQVRGRHILGRGSFLPPH LTPPHPTPPHPSMASTVLWTVF LGK VWQNSRWPGEVSFKVSRL LLHPYHEEDSHDYDVALLQLD HPVVRSAAVRPVCLPARGRIEN RGSRLLRSHFCP*PRTGPISNAL QKVDVQLIPQDLCSEVYRSSPG KGGALTLLQSFLSPFQGDSSG PLVCKALSGRWFLAGLVSWGL
16156	46524	A	16251	511	853	CCWNMALIQTFQMSMEIPLCTT LS*TALHLASANGNSGVVKLLL DRRCQLNVLDNKKRTALTAV QCQEDECALMLLEHGTDPNIPD EYGNTTLHYAIYNEDKLMAKA LLYGADIESKNKVEEEMKKH ESNNVGLENLSNGVTAGNGD DGLIPQRKSRTPENQQFPDNESE EYHSHTFLPSRIYP
16157	46525	A	16252	1050	1350	CDPQMCCCFRPEAATPG*REAA SAGPWDSAPSPARTSLPSAHSS DYPLPRSRSSASAA SRSPRPL STIARRLNPRRSGRSLPSGQPAG PSDPRGFCL

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16158	46526	A	16253	2	3486	SSQSGAAAGAFCLCVDLELTA SCDLEADSEDRTEHLATLQLRP DFSGSRCPAPQKHLQTHRPHSK PWPIY*PT*RSYLAISPHSW*AP PPSRRRAPAFHPHTQACPSTCY CHTLASRRGPSNGRYHRPGYPH PTAVQRDPPAGPRGCQSPC*HQ PPACRRPCGRHYR*HGQHDPPP WQ*HC*SRSPCHPPSQRDAVTW PFIHIPAED/SHTQPQKSP\PAFRP HTKTCPTCYCHTFAGRRGPSD GRHHHLGYHHPSAVQWDPPAC *RGCWRPCQREPQTCPCFCGR/P PPGTSLA*PPHPRVPLKEKLCQY DEFSEGLRHSALNRHQRVPTG EKSVKSLERGRGVRQNTHIRNH PRAPVGDMPIYRCDVCGKGFRY KSVLLIHQGVHTGRRPYKCEEC GKAFCGRSSNLLVHQRVHTGEK PYKCSECGKGFSSSVLQVHQ LHTGEKPYTCSECGKGCAKSA LHKHQHIHPGEKPYSCGECGKG FSCSSHLSSHQKTHTGERPYQC DKCGKGFSSNSYLQAHQRVH MGQHLYKCNVCGKSFSYSSGL LMHQRLLHTGEKPYKCECGKSF GRSSDLHIHQRVHTGEKPYKCS ECGKGFRNSDLHSHQRVHTG ERPYYCDVCGKGFYSSDLLIH QRVHTGEKPYKCAECGKGFSY SSGLLIHQRVHTGEKPYRCQEC GKGFRCTSSLHKHQRVHTGKK
16159	46527	A	16254	333	695	ISVFRSPGQSTSQHDAATWPFL HISGEGPTPSRRKAPAFHPHTQ ACPSTCYCHTLASRRGPCNGRY HRPVYPHPTAMQRDPPAGPRG CQSPCWHYTPACRHPCGRHYR *HGQHDPPPWQ*HC*FGSPGQS TSQHDAVTWPFLHIPGERPTAS RRKAPAFHPHTQACPSACYCH TLASRRGPSNGRYHRPGYPHPT AVQRDPPAGPRGCQSPC*HEPP ACRHPCGRHYR*HGQHDPPPW Q
16160	46528	A	16255	9	437	SCNMSLCRCNVCIRAAFKEGTP ALLVYSAILSFTPVSLAKSCSISI AIVSNILSWLDPFKRGVVSELSR LPSRVLL*L*LVHSLKETSFRS SSFSSCRACFLRSSQ/STAGPCR HLCRPTSAGIGEQRRCRPESH EIVDRGI

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16161	46529	A	16256	619	1138	SCNMSLCRCNVCIRAAFKEGTP ALLVYSAILSFTPV*S*DPEAFSP HLPSNCWSLPPSLSSNVSRDRG AEAMQAGKSPWCVFPP*EPGPT GCEPPRTLPPAPFKLCSL
16162	46530	A	16257	408	801	SQRRGSVCRLVHGRHGQPGKG TSPHSSLWDWQPGPQSPGPPWP EGGASPGTSLIPRS*SASCCFP WHPGCSC*GAPASQC*VALSPQ PWFLPLCLSVSPVGAQATGPK HVRTPPGSDSAPPQLQPQSRI
16163	46531	A	16258	1	199	
16164	46532	A	16259	665	1006	IGSPDGRNVIRERTVTNETQTEG EREKEEERESFHTGDVLKVGDL GPQGSREFQLLSNLTVPNFIDI QFPK*VSAAC*DGPSHTHSSYIS SSLFIIRASQSSPGDFSISVRY
16165	46533	A	16260	247	404	
16166	46534	B	16261	258	934	
16167	46535	A	16262	519	924	NRTIQADLLYPDDAGNPLPARN TRQASASADPPGARAGERRRG AAGPSPGR*QQAPGPPPPGEGA GARPG*EGDAAGGATRFVGED ARLLRAGCHRGGRGEAEEPLQ ALRHPGLQGLL*EGAPHGELAL VAF AHL
16168	46536	A	16263	121	214	
16169	46537	A	16264	139	272	
16170	46538	B	16265	1	1962	
16171	46539	A	16266	2373	2554	SATPWLPTGLAAPTGLAAPGT RSPPGQT*PERSPAASPKRPERP ALDFQPPRQPPPPPP
16172	46540	A	16267	919	1653	WNCFVCSADTMAQIMAEQEVE NLSGLSTNPEKDIFVVRENGTT RRPLQPPPRGRAS*GGAGRLCS QLITEQADIALTRGAEVKGRCG WRPLGLRTQTLRGLKRTSPAQ QESHNMSKGPEATCQLSGTLG* EQ*GF*LLLWALAVAGKHTAN SHHLSALVTPAGKSYECQAQQ TISLASSDPQKTVFCRTYDSGCF DQSSLLFFPIAEHKCPVDEREQ LEETLPLILGLILGLVIMVTLAIY
16173	46541	A	16268	2	321	PAWPPWPGITGFCPQQDSPSNT FVVPAAHV*CSHPCSYYKGIR QMVGLPQPLFHPDCPVTPQAHT DSLNTLGLVGGPPVCSDATLPQ IINALEEDPAAQKMQLAF
16174	46542	A	16269	120	327	
16175	46543	A	16270	540	791	

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16176	46544	A	16271	1688	1945	DRVSLLPRLRQENRLNPGGRGC SELRSHHCTPAWATE*GSVSKK KKKKKNQKKNQFDFISLALPPS PHCPPLSQSLLLQPSSSAN
16177	46545	A	16272	3	343	DIHHVRKSMEVNFLSYVVLTV AALPMLKQSNQSIVVVSSLAET AMKAVSGIVHMQAAPKEECAL EIKGGALRQEEVYYDSSLWTT L\LIRNPCRKILEFLYSTSYNMD RFINK
16178	46546	B	16273	48	407	
16179	46547	A	16274	35	646	DLTGFIKFSLLLGLFMAYYYYS ANEEFRPGKYPCVSFWRNRFK KHRGA*VAYHLAKMGAHVVV TARSKETLQKVRVLCQICVPS HAQMCSYI*DMTFAEQFVAQA GKLMGEAVSLTSSSELCPWGH QELLDIHHVRKSMEVNFLSYVV LTVAALPMLKQSNQSIVVVSSL AGKWDRDICGR*KKKKNARDD AVQTPGKSAI
16180	46548	A	16275	221	393	LLYPANCVYMRCPQMLHFQGI QRPILL/HVSSGGAHLQTVET EEMRSAIAPDPIPLT

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16181	46549	A	16276	2025	4146	SDEWIISAGSVSGDYNSSAAVS KNDILLGIEHISVFSETNHSSEE FIKTAKSQLVEIPATQNPKTSF SYERLQALQETCKENKGVPKQ GDTFLSFSAAACETDVSSVTPEK EFEETSATGSSMQSGSELLLKE REILTAGKQPSSDSEFSASLAGS GKSVAKTGPESNQCLPHHEEQ AYAQTQSSLFYSPSSPMSSDDE SEIEDEDLKVELQRLRFRHIQEV VNLQTQQNKELQELYERLRSIK DSKTQSTEIPLPPASPRRPRSFKS KLSRPQSLTHVDNGIVVIDPLC VESNAASCQQSPASKKGMFTD DLHKLVDWTKAEVGNSLIKP SLNQLKQSQHKLETENWNKVL QLESVYHREDEATWLPQLRAQI VAYPACAAAIAAHRRSMGVQ GFQEFLEKRCPGAVVPVDLLKL ARTVSRQQQQHLHRQLPPTA ALAPGAPRAAGSVPLQPPLPP AALGAYSGGAGPIRHHHPAHH FHHHGQAQPLHPPLPPPPPPQ LPGARVLVDAGSALPRLYGGY QTDWVCGGQWNAMLGYSAL CQACAYPGGDGLELVVMFPGG LGKDRLAEWGRRCAERQTAQ LIVGHVGNKGTTPPRAWFLPPA CLSHCVRLALIRFRF*VFQSLED HHLEVVAFFRENGFHGLLAHD SEYALYNIPSYSSHALKLSWN GKNLTTNQFLMQEVAKQLGLK
16182	46550	A	16277	1	542	MRAPPKSGQLQHCRPSRGALRS GDLPWEINPLSSCSLLHEKDPP MTSGPQTNQPKHLTNFKSGV RP/LQGRLPWSFTLSGKSRSFGE GASTPTYIS/GAPIPYFRTPTSY LCAPIPYVRTPTSYLCALTPFPL FWRHIRTSKRLN/LQQPGIPPEPP PPG/CLLQVPEI*PPGQGMCAAQ
16183	46551	A	16278	3	351	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFHPNLIS LRPNLCPHPDL/GISVP*PLSRF SGGT*ELPNA*TAAA/AAF/LPEP PPPG/CLLQVPEI*PPGQGMCAA QDSS
16184	46552	A	16279	1	513	
16185	46553	A	16280	774	1007	ARSVTSSSELCSWCLQASRHT HVPWCQL*KLPVVHLVQPQPC RGPAPGAALPAGSLEMPGTTEP ERGCHSPGLGIS

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16186	46554	A	16281	507	520	LLLGLAAED*CCLIASEAP*TQS LFGGLFTRTHMKFGAVTQIRGP PLGDKSPVLLLFALERQRRHVL SMDPKLRCWSRTGKAAPFWCL IIAEMPDISPTFQRCQTTQGRLP WSFTLSSKSRFSGEGARACYKC QKSDHQAKECPQPGIPPKPCPIC AGPHWKSDCSTHLAATPRAPG TLAQGSLTDSFLA
16187	46555	A	16282	269	607	RARSEGAGLWSVVAPSAVSVFF VSDPRCAPFHRSPSCCSPVDRV CRCLRRVALAPAALVLVCSGSH SQSPWNSGLKLSDRLLLGLAAE D*RCPIASEAP*TTTDAELTIPGL
16188	46556	C	16283	1	1752	
16189	46557	B	16284	146	372	
16190	46558	A	16285	336	753	ARTPLAAASRGSGGTRGGAAW VAGDDLRGPAAPGPAEPGPARRR RGKGTTPSSRPRTQRRPRSAAMH GHRCPQPARRSREHPNTYPAGR RPPELRRGRSGVPPRP*RRPGE APRAPRPRAEL*ARLPRPSVRP APARRV
16191	46559	A	16286	1	768	FDELREEGFRQSVITNFSELKKD V*THRKEAKNLEKKLDEWLTR INSVEETLNDPMELKTMAQELR DACTT*FREKRVKRNEQSLQEI WDYVKRPNLRLIGVPESDGEN GTKLENTLLDMIQENFPKLARQ ANIQIQEIQQIPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAREK GWVTHKGKPIRLTADLSAETLQ ARREWGPINFILKEKNFQPRISY PAKLSFISEGEIKYLTQKQMLR DFVTTRPALKEL
16192	46560	A	16287	345	894	EQRHNIPESLGHI*STSAGDTPA DRVWSGPPANSSRPAAEGPDC* KEN*QRARTSNQNPICSTPSSK TKEAKNLEKRLDEWLTRINSIE NTLKDLMEKTRARELRDACR SFSSQFDQVEERVSVIEDQMNE MKKEEFREKRVKRNEQSLQEI WDSVKRPNLHLIGVPESDGENG IKLENTL
16193	46561	A	16288	1	1206	

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16194	46562	A	16289	1	882	MAPVSASEDFWQCPETSLISQL ESAPGIQLMEARDADKSLIMHE IAPTSNREL PVHKISIAKPCSM MISWFFVNTGQSFQRKDQAAIF AVLQPLLVIHRQTGSGVDLQQT PTDLQLRDLTVRRKNNKQKGI ASTSRKRTSTPKPHLQDHSSSPA MEQSWMQKDFDKLAEVGFRR SVITNFSELKEDVQTHHKEAKN LEKRLDEWLTRINSVENTLNDL MELKTMAQELHDACTSFQRQF DQVEERVSIEDKISEIKQEEKF REKRVKIRNEQSLQTIWDYVVR PNLHLIGVS
16195	46563	A	16290	1	1008	MVRFGDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIAQRARTMALYNPIPV KQNCFTVNRSLFVSEDNVVRK YAKRITEWPPFEYMILATIIANC IVLALEQHLDPGDKTPMSERLD DTEPYFIGIFCFEAGIKIHALGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGCCSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVRTHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMAREL RDACT FSSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNE/QLQ*I WDYVERPNLRL
16196	46564	B	16291	1	1257	
16197	46565	A	16292	3	467	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDP GSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMELKTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIK*EDK
16198	46566	C	16293	115	498	

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16199	46567	A	16294	2	1455	TERDSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQSSASSPPKDCSSSPAME QSWMENNFDELTEIGFRRSVIT NFSELKEDVQTHCKEAKNLEK K\LDEWLTRINSIEKNLNDLMEL KTMAQELRDACTSFSSQFDQVE ERVSVIEDQMNMKQEEKFRE K\RVKRNEQSLQEIWDCVKRPN LHLIGIPESDGENGTKLDNTLQ DII*ENFPHLAR*ANIQIEIQ RTPQRYSPRRATPRHIVRFTKV DMKEKMLRAVREKGFKPTKIR RDKEGHYIMVKGSIQEEELTIL NIYAPNTGGPRFIKQVLSDLQR DLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQELNSALHQVDLI DIYRTLQPKSTEYTFFSAPHRTY SKIDHVVGSKTLLSKCKRPETT TNCLSNRSAIKLELRKKLTQNR SAAWKLNNLLNDYWVHNEM KAEIKMFFETRRTKIQHARISGIL
16200	46568	A	16295	395	656	FQLQRPASCSSPIQHRKHIPRKP A\SQSSLPHTGKSARQPQEPQNR ENCLLRJLIRVASEATRRWTRPS EFSSRSENPRAHHPRALR
16201	46569	A	16296	671	1126	RRKVSELEHRRPVWKCPRRPPE VRKPESARVSFSPRGGARRSRP GATRSPQPRVPAASASFGFGG LGRGGRGERARRGRGPKLEGP ESSAVLA*RNFPSPRRRRPGR GVEIARLGGTGSSPRPCPKPDPT ASLSELFMIPSDIPRRRN
16202	46570	A	16297	2571	2716	THGMLEKRCCLQENMPIIPGKD FMTKTLKAIATKVKIGK*DLIKS FCT
16203	46571	B	16298	54	576	
16204	46572	A	16299	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16205	46573	A	16300	395	830	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMK*ATVPGPSLPLKK *TFCSFLGFKVTLPPFMRSVSLE FGNLYQQRKILM*L*STVEMSLI LFICDLHIVKIMPKKPAEEENGL KEVPEASGPQNDGKQLCPPGNP STLEKINKTS
16206	46574	B	16301	54	576	

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16207	46575	A	16302	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIIGNDVESR HK\CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16208	46576	A	16303	393	822	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMKSATVPGPSLPLKK *TFCSFLGFKVTLPPFMRSNSLE FGNLYQQRKILMYF*STVEMSL ILFICDLHIVKIMPKKPAEEENG LKEVPEASGPQNDGKQLCPPGN PSTLEKINK
16209	46577	A	16304	1	447	
16210	46578	A	16305	75	565	LLFSGFSLLHGYPHWYLCHLP RSRSLGLRDKRWKVKGDTDFL SPSHPEYLLKEENDGHLCSLSFR MGNQFSSPLPAYTPLECILNHW DGFYP*NLEEKHLIALRTKGWP NYDLQEGLSWPQEGTIHFNTT WQLELFCRHEDRWSEATYMQ AFYILQGNRDLG
16211	46579	A	16306	1	1620	
16212	46580	A	16307	128	223	
16213	46581	A	16308	1	1578	
16214	46582	B	16309	592	883	
16215	46583	A	16310	1	344	MHQTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTIILKRTN PAQTITNLLKSFRNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNPTYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGCGILIVWCCVNWACL WDSVVAAPREPYPMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKTNV EHTEPYILPLITHSQPLNRGAFF CPGVRFVLVSVLDFEKRLAFAS *SCGVQLRIRGKVQGVGFRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16216	46584	A	16311	84	237	DGIVLSTYYHFYWHHF*ILEGP LPANTGDLCLPLQVQPDREQVR WALFKK

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16217	46585	A	16312	2887	3537	HLDRSGLFNIQVIPVCRKLGKE GNDEKQCVTTSRSNAAFFLLHF FLLATFTWMGLEAIIHMYIALVK VFNTYIRRYILKFCIIIGWGKPLK IFLVLFFPHENCQVYGKESYGK EKGDEL*VIKTFCDE*ISFVS*SG VMFFLNIA MFIVVMVQICGRNG KRSNRTLREEVLRNLRSVVSLT FLLGMTWGF AFAFWGPLNIPF MYLFSIFNSLQGKINCT
16218	46586	A	16313	302	547	QIGLWTPNFRARTFCVWTGGL VLCF*GFCFQEAAGARDTSSFA MGVSPWEFRHG*LWPEMRSME QILELLVLEEFLTITGQ
16219	46587	A	16314	1	1174	WEEKENKEYLKSLEILILMGK QNIPLDGHEADEIPEGLFTPDNF QALLECRINS GEEVLRKRFETT AVNTLFCSTQQRQMLEICESC IREETLREVRD SHFFSIITDDVV DIAGEEHL PVLVRVDESHNLR EEFIGFLPYEADAEILAVKFHTM ITEKWGLNMEYCRGQAYIVSS GFSSKMKVVASRLLEKYPQAIY TLCSSCALNMWLAKSVPMGV SVALGTIEEVCSFFHRSPQLLE LDNVISVLFQNSKERGKELKEIC HSQWTGRHDAFEILVELLQALV LCLDGINS DTNIRWNNYIAGRA FVL\CSA VSDDFIVTIVVLKNV LSFTRAFGKNLQGQTS DVFFAA GSLTAVLHSLNEVMENIEVYHE FWFEEATNLAHQ T
16220	46588	A	16315	717	902	GALQSWPCYLPRQCGATVQNF CGVPTCMRKSTWSNLVVRFP QDPSRCAN**LDCCTACTQ
16221	46589	A	16316	1	374	EHSEPPIGVQIVDYLLRQEKVT DRMDHSK VETETVLSFVDDIIS GAKSPCAMPSQVPDK/QAQEIA DKIYNLFNGYTSGKEQQTAYN TLLDLGSPTLHRVLYHYNQHY ESFGFTWRCEDELGPR
16222	46590	A	16317	2	1293	

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16223	46591	A	16318	219	1912	PHPTRTRSAQSVQYIEKDWGPG EGLEEGGVLGQLVAFDSFTVSF HFVSAGNSPSESEERERDPKV LTFPEYITSLSDSGTKHMAAGV RMECHSKGRCPSSCPLCHVTSS PDTPAEPVLLLEVTKAALLNTQS FPCSLMQLLQEATMSSLWCSGT GDVIEDWCRCSTAFGGCVPVS CSFLSAHRLRLSTVHEPSSTLVV LEWEHSEPPIGVQIVDYLLRQE KVTDRMDHSKVETGEHLLHGG LVLIQGDKTKTKKNALPHGFAP GPQYPRAMQEEQGEAAVLLL QEA AVLPLRVRDIRSCCFRHR ELLFLMLFPFLLLWAETVLSFV DDIISGAKSPCAMPSQVPDKQL TTIYFQPLIARFSFSSRKGLLRIM SSHCHGDCDVSTLDSYTVSAN HALPLPARFTLWGV DNTGRRS RPSDVIVYM*ITYFPFPSSEIAD KIYNLFNGYTSGKEQQTAYNTL LDLGSPTLHRVLYHYNQHYESF ASF*LKYPLCLIHRKAGLILSQL GDLSSWCNGLLQEPKISLRSS LKYLGCYSEIKPYGLDWAELS
16224	46592	A	16319	1	2031	
16225	46593	A	16320	1	739	MKRAGSSGGRGECDISGAGRL GLEEAARLSCAVHTSPGGRRP GQAAGMSAKERPKGKVIKDSV TLLPCFYFVELPILASSVVS LYF LELTDVFKPVHSGFSCYDRSLS MPYIEPTQEAI PFLMLLSLAFAG PAITIMVGE GILYCCLSKRRNG VGLEPNINAGGCNFNSFLRAV RFVGVHVFGLCSTALITDIQLY TGHQAPYFLTVRTPNYTS LNVS CT*NSYLAEDIRSRSDLTLTHSG

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16226	46594	A	16321	48	1359	GDKNQNP RNWPLGEGKGNSLG RKETGRS NSRSHSSRSKSR*QSS SRSRSRSHSRKKRHSSRSRSTY SRSWSRDRMYSRDDRH*YEVIV DCSRHGREYKGREPRHGSGSLE RPTEQETSQPKIRKEIVETKGTA RGNCGTTGLLRPKTMMVERSY GPQDRVA VGTWPHPGTERWAS SWDVSSSVRHQSEG VVQGW E H RCTHKSQQEVGACVNFRTPKVI LIYNLYLPVSHQFSKTFMSIVIV QKNLYLHNDFRALNVTHIYRLT IPNTTTCFTATQDEDKQIFHTAA QHRSH TSSYQYLSLTRSHRYEI VFYTRGLGAPFPAGDGHGKFQ RLGKPYSHSVHFVIPQDKTQHIS INTPHKNSETTKQHTCSFAYGL YYYQQKEDNPYA WPQVPAAA EMVSRLA QSRHSQQSILIHFSHQ SYHTDHISTV
16227	46595	A	16322	227	3020	SCIKPRRKEMGRS NSRSHSSRSK SRSQS\SSRSRSRSHSRKKRYSS\ RSR\SR TYSRSRSRDRMYSRDY RRDYRN NRGMR RPYGYRGRG RGV\YYQGGGGRYHRGGYRPV WNR R HSRSPRR\GRSRSRSPKR RSVSSQRSRSR SRSYRSSRSPR SSSSRSSSPYSKSPVSKRRGSQE KQTKKAEGEPQEE SPLKSKSQE EPKDTFEHDPSESIDFNKSSAT SGDIWPGLSAYDNSPRSPHSPSP IATPPSQSS
16228	46596	B	16323	258	3728	
16229	46597	B	16324	1	435	
16230	46598	A	16325	1120	1209	ASSDNPP*SEPRVSLTIEGQEIDF FLDTGTAFSVLSSCPGWLSSRS VTIRGILGQPVTRYFSHLL
16231	46599	A	16326	1291	1582	IHQ S ALCI*LKVCKHTNQQP VSS SGFVNAPIDTLYLATLVGPWRT LCVHTLYLVNLVGMWRTFVSS SGIVNAPISALSKQTTWLYQSA GCGWGQIRE

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16232	46600	A	16327	2	840	APAVATEVLPGAGLTAGVLLW SDPKEPSNPGSSHRVGASDLDN PAHPTLLSYTMQKLEELDVL FDRSGHRTKFTNVGRMLLERG RVLLQAADKLTDDAEALARGW ETHLTIVTEALVPTPAFFPLIDK LAAKANTQLAIIT*VLGAWER LEQGRADIVIAPDMHFRSSSEIN SRKLYTLMNVYVAAPDHPHQ EPEPLSEVTRVKYRGIAVADTA RERPVLTVQELDKQPRLTVSTIE DKRQALLAGLVATMPYPMVE KDIAEGRLLRVVSPSTS
16233	46601	A	16328	3	923	RFLSDGTIISVDSAGKVQFWD ATGTLVKSHLIANADVQSI DFFPGHESRATEALCWAEGQR LFSAGLNGEIMEYDLQALNIKY AMDAFGGPIWSMAASPSGSQ LVGCEDGSVKLFQITPDKIQF NDRQKSRILSLSWHPSGTHIA AGSIDYISVFDVKSGSAVHKMI VDRQYMGVSKRKCIVWGVAFL SDGTIISVDSAGKVQFWD TLVKSHLIANADVQSI RQFRGGHSGNSLPFSAGPCAS NSS*EAVGADKTPASHS*RAH CGPTAQQR*YLG GTDTHLVFRP
16234	46602	A	16329	2	1059	
16235	46603	A	16330	582	1540	
16236	46604	A	16331	1	720	
16237	46605	A	16332	1	477	
16238	46606	A	16333	1	540	
16239	46607	A	16334	1	261	
16240	46608	A	16335	964	1574	LRWCCGSQ LFRGYWGGVTGR YLTVLPPHLAVGCMAPWGPFS VRIAAVFIQIFAGEVFWCPVM CVRGLCTPVL TGVP GHGNSHIP AIVFTCSLQTLVGGTRRWRC CAAGDVT KFPALVGVGGETPR PQLPIGVTTVILLQVLVWKFR NVSM SVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16241	46609	A	16336	3	87	
16242	46610	A	16337	1	1398	

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16243	46611	A	16338	1596	2205	LRWCCGSQ LFRGYWGGVTGR YLT VLP PHLAVGCMAPWGPFS VRIA AVVFIQIFAGEVFWCPVM CVRGLCTPVL TGVPNGNSHIP AIVFTCSLQTLVGGTRRWWRC CAAGDVAKFPALVGVGETPR PQLPIGVTTVILLQVLVWKFGR NVSM SVWALRVPGLAFQSRH/ ASWKFCRHSFLHCNAYIPLHTQ ECRSSHISFLDQ
16244	46612	B	16339	276	442	
16245	46613	A	16340	1	300	
16246	46614	B	16341	1	903	
16247	46615	A	16342	119	889	RQHILESHSRPILCTTWLPLLIHQ DPRTLQSAAMLLTQSLFGGIFT RTRMKFGAVTWIGGPPLGDQS P\SSCSLLREKDPPTTSGPQTHQ PKEHLTNFKSGVRPRRDACLGP SPLAASPAFLGKGQVPQPLISLC PDPLFPHPNLISLRPNPLCPHPD LVSLCPDPFPAFL EAHKNFQTPE PQQPGIPPEPPPGACYKCQKSD HQAKECLQPRIPPKPCPICAGPH WKSDCSTHLAATPRAPGTLAE GSLTDSFSA
16248	46616	B	16343	1	498	
16249	46617	A	16344	3	903	
16250	46618	A	16345	1	684	
16251	46619	A	16346	2	1028	
16252	46620	A	16347	1	338	
16253	46621	A	16348	2	392	
16254	46622	A	16349	790	2184	
16255	46623	A	16350	773	890	
16256	46624	A	16351	467	606	
16257	46625	A	16352	1569	1841	
16258	46626	A	16353	430	980	LLTEDALDDLIPSFLT GQQTPA FGRRVSGVIEIADGSRRRKAAA LTESNYRVLVGELDDEQMAAL SRLGNDYRPTSAYERGQRYASR LQNEFAGNISALADAENISRKII TRCINTAKLPKSVVALF SHPGE LSARSGDALQKAFTDKEELLKQ QASNLHEQKKAGVIFEAEEVIT LLTSVLKTSSASRTSLSSRHQFA PGATVLYKGDKMVLNLD RSR* RGIT*AAGI*PS*AEKSWGDI*S* RSYHSFNFCA

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16259	46627	A	16354	1	343	MKRAPVIPKHTLNTQPVEDTSL STPAAPMVDSLIRVGVMARG NAITLPVCGRDVKFTLEVASGVI VLRRLPGYGQVMNVTRSCLLR THWMISSLLFY*LVNRHRRSVE EYLV
16260	46628	A	16355	1	584	MLRDLLKNVDLKGFEVDVRIIL TKYSNSNGSQSPWMEEQIRDA WGSMLKKNVVRETDEVGKGQI RMRTVFEQAIDQRSSTDNEGAP VIPKHTLNTQPVEDTSLSTPAAP MVDSLIRVGVMARGNAITLP VCGRDVKFTLEVASGVIVLRRL GYGQVMNVTRSCLLRTHWMIS SLLFY*LVNRHRRSVEEYLV
16261	46629	A	16356	62	350	SLPNLDNAAICSSSSPTRTR*SL SVSAAALRRRLPSAISDHTREVF STLSPRSTSRVNFTSRPHTGKV MALPRAITPTRAINESTIGAAGV DNEV
16262	46630	A	16357	291	502	RLFEVHHHVHKHLLGDNRYPI WIMQPSAHP/RSPTTRTR*SLSV SAAALRRRLPSAISMTPTLRP NAGVC
16263	46631	A	16358	1	378	
16264	46632	A	16359	159	433	SYVKYFPHQPAQKYFQQIHSI GLHNADHVHKHLLGDNRYPIW IMQPSAHP/RSPTTRTR*SLSV AAALRRRLPSAISMTPTLRPN AGVC
16265	46633	B	16360	1	624	
16266	46634	A	16361	3	299	
16267	46635	A	16362	163	699	
16268	46636	A	16363	795	980	
16269	46637	A	16364	663	734	
16270	46638	A	16365	391	1248	
16271	46639	A	16366	1	1143	
16272	46640	A	16367	1	271	
16273	46641	A	16368	1	493	MSKRRWLTGNGSDRENIRLDL GFLVSDEEKRYKCEDCGKAFN RSSNLTTHKKIHTGEKPYKCEE CGKAFKRSSILTTHKRIHTGEK YKCEECGKVFKYLSSLSTHKIIH TGEKPYKCEECGKAFNWSSHL TTHKRIHMERNPTNVKNVAKA LSTPLPLNIK
16274	46642	A	16369	728	1428	
16275	46643	A	16370	3689	3864	NYKSFFKWS/SQM QSMTKIYRG PLDHPDSPCSNVNDIEGTPPEI STAQPLLHPRPAGSS

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16276	46644	A	16371	2	126	WPLLLLGCLSLTKEWGFQA*LE KHVKRVKFP SHNLVPGRSI
16277	46645	A	16372	728	2207	
16278	46646	C	16373	1	873	
16279	46647	A	16374	1220	2097	
16280	46648	A	16375	73	1438	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVALERGKGIYLDVEG RKYFDLSSYS AVNQGHCHPKI VNAL\KSQVGQN*PLTSRAFYN NVLGEYEEYITKLFNYHKVLP MNTGVEAGETA\CKLA\RKWG L/YTVKGIQKYK\AKIVFAAGNF WGRTLSAISSSTDPTS YDGF GPF MPGFDIIPYNDLPALERALQDP NVA AFMVEPIQGEAGVVVPDP GYLMGVRELCTR HQVLFIADEI QTGLARTGRWLAVDYENVRPD IVLLGKALSGGLYPVSAVLCDD DIMLTIKPGEHGSTYGGNPLGC RVAIAAL\EVLEENLAENADK LGIILRNELMKLP SDVVTAVRG KGLLNAIVIKETKDWD A WKVC LRLRDNGLLAKPTHGDIIRFAPP LVIKEDELRESIEIINKTILSF
16281	46649	A	16376	600	806	

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16282	46650	A	16377	1	2255	EPDVCAKMAGRSMQAARCPD ELSLTNCVSVNEKDFQSGQHVI VRTSPNHRYTFTLKTHTPSVVP SIAFSLPQRKWAGLSIGQEIEVS LYTFDKAKQCIGTMTIEIDFLQK KSNDSPYDTDKMAAEFIQQF NNQAYSVGQQLVFSFNEKLFG LLVKDIESMDPSILKGEPATGK RQKIEVGLVVGNSQVAFEKAE NSSLNLIGKAKTKENRQSIINPD WNFEKMGIGGLDKG\FSDIFRR AFASRVFPPQIVEQMGCKHVK GILLYGPPCGKTLARQIGKM LNAREPKVVNGPEILNKYVGES EANIRKLFADAEQRRLGANS GLHIIIFDEIDAICKQRGSMAGS TGVHDTVVNQLLSKIDGVEQL NNILVIGMTNRPDLIDEALLRPG RLEVKMEIGLPDEKGRQLQILHIH TARMRGHQLLSADV DIKELAV ETKNFSGAELEGLVRAAQSTA MNRHIKASTKVEVDMEKAE QVTRGDFLASLENDIKPAFGTN QEDYASYIMNGIIKWGDPVTRV LDDGELLVQQTKNSDRTPVSV LLEGPPHSGKTALAAKIAEESN FPIKICSPDKMIGFSETAKCQA MKKIFDDAYKSQLSCVVDDIE RLLDYVPIGPRFSNLVLQALLV LLKKAPPQGRKLLIIGTTSRKDV LQEMEMLNAFSTTIHVPNIATG EQLLEALELLGNLKD KERTTIA
16283	46651	B	16378	1	2181	
16284	46652	A	16379	1	441	
16285	46653	B	16380	47	482	
16286	46654	A	16381	1	636	MRDPNTKRSRGFGVTCATVE EVDAAMNARPCVVGRVTEPK RAVSREDSQRPEDTEELHLRDY FEQYGKIEVIEIMTDQSGGKKR GFAFVTFDNHDSMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQRGRSGGNFSGGGRGGG GGNDNFGRGGNFSHGFGGGS HGGGGYCG/SGDGYNGFGNDG GGGSYNDFVNYNNQSSHFGPM
16287	46655	A	16382	1	762	
16288	46656	B	16383	59	1042	
16289	46657	B	16384	76	848	
16290	46658	B	16385	179	400	

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16291	46659	A	16386	27	372	VGSLRRPGPPREETRRLRERRRS LEPWAFLLKEAKVG*QPSSLFQ WEGPMGLCSTPLVMNMGDSL TK\HLFQVPPLTITSPGPRTRRPH S*YPSPLATGVWAAVWCKQP HFAK
16292	46660	B	16387	134	284	
16293	46661	A	16388	1	2013	
16294	46662	A	16389	313	770	IFGFVVMHGAAPGQAVLELLQ LTGDQSLGLSQRHMAALDALV HLLHGGGLAVLTTAGAAPEHET RGIAGLREEQCRNPRCVKRGW AQEKQA*PGQRGGRKSSPFWSF TL/DSASAGPRAAHLHLPDVLS LQTLHHGLHRLHPELLQLSHG
16295	46663	A	16390	1	2753	
16296	46664	A	16391	1	1363	
16297	46665	A	16392	26	181	
16298	46666	A	16393	1	867	
16299	46667	A	16394	1	1447	
16300	46668	A	16395	31	659	APALPGCEHMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFH NISPTIGVASFMTKTVPCGNELH KFLIWDTAGQERFHSLLPLYLR GSAAAVIVYDFTEAGFHFHPLK KWW\KRLKELGPE\NIVMAIAG NKCDLSDIREVPPGMLKEYA ESIGAIVVETSAKNAIN\EELFQ GISRQIPPLDPHENGNG\TIKVE KPTMQASRRCC
16301	46669	A	16396	1	1182	
16302	46670	A	16397	1	513	
16303	46671	A	16398	146	429	TFYTCFSPSVIPFSFSIHTKPYPG HHQSFYMTNVSSNPTISPLTT RPPFSLISPALGSHAAPNPA*SSP EKHRPFSLHTTPQKFHRPNTSTL F
16304	46672	A	16399	1	435	
16305	46673	A	16400	56	477	ARAAKGESCEGPGVGRCFSFSS YRQTPCCQRLVNVPKTR\RTF CKK\CGKH\RPKVTQYKKGKD SFYA\QGRRRYDRKQSGYGGQT KPIFRKKA\TTKK\MGLRLECV EPNCRSKR\MLAIKCKHFELG GDKKRKGQVIQF
16306	46674	A	16402	183	373	IHGSSNPTPERETLFWHAENG SALASC*KSGGQAPKRKVRTTL ILKAEILILGMLVLRSHGM

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16307	46675	A	16403	1	881	MPFKCKKQHTFNKTSPKEGAI FTHGCLCTSPFNSEHLGNL KLSSWEHLHHRSQQTLSVRLH VPTPQPVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLTLHHKGCLFRDLVRIQ GK DLLTPVSRILIGNPGCTYKYLNT RLFTVPWPVKGSNIKHTAEIA AACETFLKLNDYLQIETIQALEE LAAKÉKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNVTLLNFMDPQKMPYLKEEP YFGMGKMAVSWHHDENLVDR IQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSQEGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDDKSLTLVRKINLQ GK RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCSRSPWRGLGHL EGNAQKGHLLHGVNKNQHL L*MPPSPLPGGQKGRLVGMLS WVLT*VYKIQH/GT/PAAVEG*D EAFLAVWLGEVGDFSPVPSL LWHS*RGCCSIHGIPLELNPVH QIFIM/SASSLPFSPCQNKVPLSG
16308	46676	A	16404	1	459	
16309	46677	A	16405	1	2025	
16310	46678	A	16406	1	816	
16311	46679	A	16407	1	217	
16312	46680	A	16408	3	135	
16313	46681	A	16409	21	218	
16314	46682	A	16410	392	3744	LNYKMLLKNLSPMSMLKAFSF AIPMQPPAQTNLPTAKPNGFQP LLLSQYNACPPPQ*EAG/QVDL CSTIPLNLLPDSLPLTVPTGPLPQ GSVGLVLGRASSAKGITIHTGL INSDSVDEIKLITSAKVPVSILAG ESIAQLLLPNILNKGDKTRGP GMGSRGEKAAWYINVISKQRP TCTIHIQGRKFEGLVDTGADV VISSSLWPSSWLKHPTNMGLVG VGKAEVYGSTFILPCTGLDGQ KGTIQPYIM
16315	46683	A	16411	1	783	
16316	46684	A	16412	1	1911	

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16317	46685	A	16413	3	1381	KTPFVG YQHQRPKVDKTTKMG RNQSRKAENSKNQSTSSPPKDR SSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMEKLTMAQELRDARTSFNS *FNQVEKRISVIEDQIDEIKQDD KAAETCNWRWVSESLRQLRAS VDAFHARASHYNAGECLHQLA ALNSRLNCAQEMARRDSIGEV PVPWRTVVGSGIAGEAKLDHL RLVSLIGREVNKENS PAATRWL FSFQAGALAGGQIVLQAAPN AHGQPVVATRNLNPAGIVAV LKQRPRLVAAA VQAFYLRDPID LRACRVFKTFLPETRIMTSYYAI EWSLWTLVDVLHAENSESAHM SHNSYDPPSDVARHLTHLPMSP IPDYIIARFRYRHR SRVRLTARK LSPAFMRCSS EIQRYSTMLERG FNGGYCRSTTVRVVTEATRML
16318	46686	A	16414	1	1191	
16319	46687	A	16415	1	1909	
16320	46688	B	16416	1	1791	
16321	46689	A	16417	1	1818	
16322	46690	A	16418	1	1044	
16323	46691	B	16419	1	1140	
16324	46692	A	16420	1	1062	
16325	46693	B	16421	1	972	

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16326	46694	A	16422	1	1758	MDTFLQAERKDYMEA YELIEQ EEQGVKELNRPLTAPSALHPRD EAHLIMVDKLFVDVLLDSVCQYF IEDFCIDVHHINSRWI/AVCQYFI EDFCIDVHHINSRWIKDLNVRP KTIKTLEENLGNTIQDIGMGKD FLSKTPKAMATKAKIDKWDLIK LNNFCTAKETTIRLPVNP CGPV AETPLSRV FVLREARKTLKPHQ STCLSKGRDNSIDSWKTAARVL KTAISSTPTIPILKDQTQEWVS ATFTSDGKIRLFYTDYSGKH YG KQSLTTAQVNVSKSDDTLKING VEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVED KGHKYLVFEANTGTENGYQGE ESLFNKAYYGGGTNFFRKESQK LQSAKKRDAELANGALGIIEL NNDYTLKKVMKPLITSNTVTDE IERANVFKMNGKWYLGELGW RREWSSGDRKSLARLSKTGTLG LAALTYKCTRDQWTVYCRVIR EKNLCQDMRWYQRCCQTCRD FYANKMSPATAELVTRSPKGRS KLRLRYQLVFISLKGK PARKGK ASSGSKLSLLSSSKTVALAGMG RGDEFQMELESEDLT SERDGIL TPTSSNQKKSKAYGSLIRT
16327	46695	A	16423	1	4449	
16328	46696	A	16424	3	3859	QFLPNLDSTVLGENYFDGTYQ MLYLLVKGTIPVEIHTATVIFVS FQLSVATEDDFYTSHNLVKNLA LFLKIPSDKIRISKIRGKSLRRKR SMGFHIEIEIGDPPIQFISNGTTGQ MQLSELQEIAGSLGQAVILGNIS SILGFNISSMSITNPLPSPSDSGW IKVTAQPVERSAFPVHHVAFVS SLLVITQPVA AQPGQPFQPPSV KATDSDGNCVSVGITALTLRAI LKDSNNNQVNGLSGNTTIPFSS CWAN

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16329	46697	A	16425	65	1905	RTSSRKTTNHCSEIKEDTNNWK NIPCSWIGRINIVKMAKLPKPPL VIPRQTGSGVDLQQTPTDLHLR VLTVRRKTNKQKGHPHQNPICT SPSSKTKVLEVLAARAFRQEKEI KGIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLKSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVRA GEMAKTR RCQNVKGASEEGIRA/HCFVSH *PHCP/LWRATTLMETLKFKEIE VPCKPLEKSVSLLLL
16330	46698	B	16426	1	2348	
16331	46699	A	16427	1	660	MPNFFIDRPIFAWVIAIIIMLAGG LAILKL PVAQYPTIAPPAVTISA SYPGADAKTVQDTVTVQVIEQN MNGIDNLMYSSNSDSTGTVQ ITLTFESG\QVQNKQLQ LAMP/LL PQEVQQQGVSVESKSSSFLMVV GVINTDGTMTQEDISDYVAAN MKDAISRTSGVGDVQLFGSQY AMRIWMNPNELNKVERNSRRQ DVGERDISSGSRKVNKESREDE EVT
16332	46700	A	16428	1	975	

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16333	46701	A	16429	1171	2007	AVDIVQGLVRGWGRQGWLLS GRGIPEGPLLLWGATVGSWRR LLPLTGVCGLPLGAVPVLIS*LL GGAQVQLLREEEAGHEL VQQL VDGALVLLLDGRLPLHVVADE RCCVLQDLPVLVHKDEVRLAR GGTAALRVLLLVLVVDALDLV EQALGAQGLGVVLEVHSLVV KGLEVRLLILLPPDLVEALLGLP PLLFLGLQSFQDNGDSGDRVLL EALDDLRLGLVAIDAINGTALDH LRRASQGVVQPELLLVFRRHPR QLLLHTFQHTDCGQVRLQDIV
16334	46702	B	16430	1	768	
16335	46703	A	16431	1	2553	
16336	46704	A	16432	3	573	CEMHSVQKNEHDKTPEHSRKR SRPSLLRPVSAPAKKKMKLRGT KDLSIAAVGKYGTLP/IGIFFL*Q GPPGAEEPGGV*KLPPLHRTLQ PGAGVWL*APAARQPISGVSS* LPRAP*GGSVPVNSIYLVFSYCF *AMIVLF*NPVY*LT*LI*LLIPM HL*GAIHHLGTLQLVPLPVTSV VSILTRIQWVLE
16337	46705	A	16433	110	1347	LTTATGMELSMGSTTWTSLCK AENAACQQEKPHIWLCSISSFL RLKRRRTTTKNTGTKKIASTVA VTIPPITPLPTAFCAPEPAPVLLT SGIPRLNASENPQLLSGS/SSSD STGTVQITLTFESGTDADIAQVQ VQNKLQLAMPLLPQEVQQQGV SVEKSSSSFLMVVG VINTDGT TQEDISDYVAANMKDAISRTSG VGDVQLFGSQYAMRIWMNPNE LNKFQLTPVDVITA IKAQNAQV AAGQLGGTPPVKGQQLNASIIA QTRLTSTEEFGKILLKVNQDGS RVLLRDVAKIELGGENYDIIAEF NGQPASGLGIK LATGANALDT AAAIRAELAKMEPFFPSGLKIG YPYDTPPVVNISIHEVGKTLVE ANNLVFLAMNLVLQEFPADVIS TIAGPPSLRSSRVPGL
16338	46706	B	16434	1	2550	
16339	46707	B	16435	1	630	
16340	46708	A	16436	270	455	
16341	46709	A	16437	174	492	GALQPPPCTVGAPFWAGQGWS PLPQLAGRCGGRGTNRGTGAAC GACGPAGVPGGLGLGGPRTRSS RPALLAPGNGGLSTRASGCGGC TESPSSGWPTSAALDFLPGP

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16342	46710	A	16438	3	413	
16343	46711	A	16439	31	507	
16344	46712	A	16440	1	537	
16345	46713	A	16441	152	247	
16346	46714	A	16442	44	208	EEMTSKMYKVIIRKTMKASVC TQVKHPAIA SICKA VL*VGPWS GHFKYAGLPTL
16347	46715	A	16443	1	549	
16348	46716	B	16444	376	862	
16349	46717	A	16445	2	1603	TNVSTTIATVVLNALARATKLL PPGHRSPNPATAAASSPPTTLA HCSLRSHHQPLRGEQQPQAI RT TAGRCKALSSCPSFFECGRSSG APPGACGQIFRVSNAKLEPQAR PSSPVTGGPLDLMACRVVAAST REMAMLIAQALQTINYGRDDE NGHTHSACEVHHGGRVPELSV PSFSWRNRNPSFIMGSITPTDY TL SKCYLPREDVVLIIYCGVSTN EQPDEEVPRTRFPTVAVSIGFAV RQELEFGVIYHCLE\YRLYTGRR GRGAF CNGQRLRVSGETASGM LPGIQQIHIQQEQNLQVGASTEL PCNLHTTRIRVASAPSSAPEDGT ESKTCNFRVTSSKGYCLALPRV PFPLTTGYKHLHKPPTGTHSTY HSMCLLNQPGWLR TISII LFLNN KICWQKKSGREIKIEDYFPEYA NYTVPEDGHLSAHL YILSGLCM WLQHSGQDSILYTDYRRGEN SFVMVNSVALNGDGC GICSETE AELIEVSHRLNCSREVGEHLNA TGELGEERAHGRQQAACGFTIA
16350	46718	A	16446	1	648	

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16351	46719	A	16447	329	2497	GEGQAVLQKMGGEKPIIGA GEEKQKEG\GKKKNKE\GSGDG SRAELNPWPEYIYTRLEMYNIL KAEHDSILAEKAEKDSKPIKVT LPDGKQVDAESWKTTTPYQIAC GISQGLADNTVIAKVNNVVWD LDRPLEEDCTLELLKFEDEEAQ AVYWHSSAHIMGEGMERVYG GCLCYGPPIENGFYDDMYLEEG GVSSNDFSSEALCKKIIKEKQA FERLEVKKETLLAMFKYNKFK CRILNEKVNTPTTTVYRCGPLID LCRGPHVRHTGKIKALKIHKNS STYWEGKADMETLQRIYGISFP DPKMLKEWEKFQEEAKNRDHR KIGRDQELYFFHELSPGSCFFLP KGVYIYNALIEFIRSEYRKRGFQ EVVTPNIFNSRLWMTSGHWQH YSENMFSEVEKELFALKPMNC PGHSLMFDHRPRSWRELPLRLA DFGGLHRNELSGALTGLTRVRR FQQDDAHIFCAMEQIEDEIKGC LDFLRTVYSVFGFSFKLNLSTRP EKFLGDIEVWDQAEKQLENSL NEFGKEWELNSGDGAIFYGPKI DIQIKDAIGRYHQCATIQLDFQL PIRFNLTYVSHDGEDKKRPVIV HRAILGSVERMIAILTENYGGK LAPFWLSRQVMVVPVGPTCD EYAQNVRQQFHDAKFMADIDL DPGCTLNKKIRNAQLAQYNFIL VVGEKEKITGTVNIRTRDNKVH
16352	46720	C	16449	189	456	
16353	46721	A	16450	3	1414	
16354	46722	A	16451	95	293	

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16355	46723	A	16452	1	1136	MKKRPGHSLFQFQFLMFRLFSE ARQPLSEEDVASLSWRPLHLPS ADWQRAALSLWTHRTFREVLK EEDVHLTYQDWLHLELEIQPEA \\MLFQILNGRTSTSGRSMSTFSL SPRLQGAVTETCRLRVFLSTH* WISTKAQGVMTTQKILIWSLVA AQEMRILFPDCRRW*LTWSCSK TS*CLSATPLPRSTSSLRFSADG SRL*QAGGAWLPAFRDRGSC*C TNGSSSACLRLSSAAAASRQNS PSLPDASSSTWSTLR*ETSAPT EVP*HRTSLPTS\\QGPPERLSAE QRPLPDGR\\RSYWPSARRNA\\RL ILT\\FCSGVVAEPGACAALPVEE TLPEPAAPGTAEATRRPAVCQR VRVGAIGFPFLLLLDGPAVVT DLK
16356	46724	A	16453	3003	3482	HRPRTRPCPWRRNHHLGHRAP L*PQRARR*SPNPPEDGSEDEHL *QLC
16357	46725	A	16454	598	759	KVILGLWTEEAQVGQGLRAP TPRLHHVLK*DIKR*AHRPDA VAHACNPNTLG
16358	46726	A	16455	1	1767	
16359	46727	A	16456	2	572	
16360	46728	A	16457	1	726	
16361	46729	A	16458	155	1334	HALGRRGGSQELSAAAGAASP SGSERRAPGALPCAWAAALLV LGAPPASRPGGFAAGKTMMLK EYRI\\CMPLTVDEYK\\GQLYM ISKHSH\\EQSDRGEGVEVVQKE PFEDPHHGNGQFTEKRVY\\NSK LPSWARAVVPKIFYVTEKAWN YYPYTITEYTCSFLPKFSIHET KYEDNKG\\SNDTIFDNEAKDVE REVC\\FIDIACDEIPERY\\YKESED PKHFKSEKTGRGQLREGWRDS HQPIMCSYKLVTVKSEVWGLQ TRVEQFVHKVVRDILLIGHRQA FAWVDEWYDMTMDDEVREFER ATQEATNKKIGIFPPAISISSIPL PSSVRSAPSSAPSTPLSTDAPEFL SVPKDRPRKKSAPETLTLPDPE KKATLNLPGMHSSDKPCRPKSE
16362	46730	A	16459	26	355	
16363	46731	A	16460	86	489	
16364	46732	B	16461	1	201	
16365	46733	A	16462	3	367	

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16366	46734	A	16463	58	553	VARSAAPPDGAVCAGPGSRRT MAEQSDEAVKYITLEEIQKH HSKSTWLILHHKG\YDLTKFLE EHPGGEEVLREQA\GGD\ATENF EDVGHSTDAREMSKTFIIG\ELH PDDRPKLNKPPEP*RRCFKETLI TTIDSSSSWWTNWVIPAISAVA VALMYRLYMAED
16367	46735	A	16464	185	489	
16368	46736	A	16465	134	345	
16369	46737	A	16466	572	1017	
16370	46738	A	16467	911	1013	
16371	46739	A	16468	1	157	FGGNQKGERTGQKGKGERGAK RKDFPGAVCISALGLLAKGCG* SWRPSSAN
16372	46740	A	16469	71	369	SCGLSLIKMTTSQKHRDFVAEP MGEKPVGSLAGIGEVLGKKLE ERGFDAKAYVVLGQFLVLKKDE DLFREWLKDTTCG/APNAKQSR DCF*CLREWCDLFL
16373	46741	A	16470	1	831	
16374	46742	A	16471	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITSLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
16375	46743	A	16472	536	717	
16376	46744	A	16473	1	1632	
16377	46745	A	16474	1	651	
16378	46746	A	16475	1	903	GGGGRMKLIDYGLSGYQEESA EIVKAMDFITSTAILPLLFGCLG VFGLFRLLQWVRGKAYLRNAV VVITGATSGLGKECAKVFYAA GAKLVLCGRNGGALEELIRELT ASHATKVQTHKPYLVTFDLTDS GAIVAAAAEILQCFGYVDILVN NAGISYRGTIMDTTVDVDRV METNYFGPVALTKALLPSMIKR RQGHIVAISIQGKMSIPFRSGI CQPSKHATQAFDCLAVPEME QFEIEVTVISPGYIHTNLSVNAIT ADGSRGVMDDTTTAQAEALW RWPRMFLLLWGRRRKM
16379	46747	A	16476	359	1094	
16380	46748	A	16477	1	906	
16381	46749	A	16478	1	371	
16382	46750	A	16479	11	257	
16383	46751	A	16480	2	419	
16384	46752	A	16481	1	2514	

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16385	46753	A	16482	262	822	AGCTRKTRIIDVVYNASNNELV RTKTLVKNCIVLIDSTPYRQWY ESHYALALGRKKGAKLVRVTS L*GLWGGQPDSSLLVMKTLSSS ATEGREMRAF*AEEGQHWGVQ GSRKLPGPAFLP*AHIFVSPFQT PEEEEEILNKKRSKKIQKKYDER KKNAKISSLLEEQFQQGKLLGE KADELEVGSRRD
16386	46754	A	16483	2	799	SQWLKLPSPPLPHAGISRYNWD QAP*KTGGPRESYPYHKKREVM KLGRPSCPN/NPKIGPPAGIQHSP VCRGG*QVNTRAPEVWTVGNF \SWGLICRCTP*NKDPISIVVLQC HLNNGAWFRTQGPWVEEFCIV ASSDQQQPYR/QWVRSPNLCAC PLGPAKKGEPKLDLSRKEEIK QKNDLKKLRKEI*LKRKKNCQI PAVLPGREQFPARGKLSCRA/SR FQPGQQLWAEQDGFC*AEGQK SLEFLSFRKNPRPRKGQIKFLVF VFHPC
16387	46755	A	16484	1	681	
16388	46756	A	16485	287	694	HSSRPAPASAPRRWGLSWSWQ RCWC**TPSPSPRPRPAEG\CLR GRGRGAGGGLPFRPHGSLVHS GAQPPHFPHLPGGARQTCGAPP GSWSCVL/CRPAETGAAAAGSP AAAGSTRKRLGRAQGRGCRVA ALRLSPTH
16389	46757	A	16486	189	381	QGAGSVGRTGQQLLKPGPFLE KLLSLGCT/LSG*ALRARACCSP CCRPAGCQPPAPVAQAGHP

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16390	46758	A	16487	1	2388	QGR LVAKPPRPARSTAADSSTP RDMLGLRPPLLALVGLLSLGCV LSQECTKFKVSSCRECIESGPGC TWCQKLNFTGPGDPDSIRCDTR PQLLMRGCAADDIMDPTSLAET QEDHNGGQKQLSPQKVTLYLRL PGQAAAFNVTFRRAKGYPIDLY YLMDSLYSMLDDLNRNVKKLGG DLLRALNEITESGRIGFSFVDK TVLPFVNTHPDKLRNPCPNKEK ECQPPFAFRHVLKLTNNSNQFQ TEVGKQLISGNLDAPEGGLDA MMQVAACPEEIGWRNVTRLLV FATDDGFHFAGDGKLGAILTPN DGRCHLEDNLYKRSNEFDYPS VGQLA\HKLAENNIQPIFAVTSR MVKTYEKLTEIIPKSAVGELSE DSSNVVHLIKNAYNK\LSSRVFL DHNALP\DTLKVTYDSFCSNGV THRNQ\PRGDC\DGVQINVPITF QVKVTATECIEQSFVIRALGFT DIVTVQVLPQCECRCDQSRDR SLCHGKGFLECGICRCDTGYIG KNCECQTQGRSSQELEGSCRKD NNSIICSGLGDCVCGQCLCHTS DVPGLIYGQYCECDTINCERY NGQVCGGPGRGLCFCKCRCH PGFEGSACQCERTTEGCLNPRR VECSGRGRRCNVCECHSGYQ LPLCQECPCPCPCGKYISCAEC LKFEKGPFKNCNCSAACPLQLS NNPVKGRTCKERDSEGCWVAY
16391	46759	A	16488	353	1205	
16392	46760	A	16489	11	440	FRALTEGDTQLNWNIVSFPVAE ELSHHENLVSFLETVNQPHHQN VSVPSNNVHAPYSSDKEHMCT VVYFDDCMSIHQCKISC\ESMG SHPNIRWVSLMACCECIGPECID YGSKTVKCMNCMF*RRQMQT KAT**NNRYKKLKK

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16393	46761	A	16490	515	1808	KRKQTGEFGFNSFE\WCSDSLC EMNAGMPKGNLNEQDPKHCPE SEKCLLSIEDEESQQSILSSLENH SQQSTQPEMHKYGQLVKVELE ENAEDDKTENQIPQRMTRNKA NTMANQSKQILASCTLLSEKDS ESSSPRGRJRLTEDDDPQIHHPR KRKVSRVPQPVQVSPSLLQAKE KTQQSLAAIVDSLKLDEIQPYSS ERANPYFEYLHIRKKIEEKRL CSVIPQAPQYYDEYVTFNGSYL LDGNPLSKICIPTITPPPSLSDPL KELFRQQEVVRMKLRLQHSIER EKLIVSNEQEVLRVHYRAARTL ANQTLPFSACTVLLDAEVYNVP LDSQSDDSKTSVRDRFNARQF MSWLQDVDDKFDKLTCLLM RQQHEAAALNAVQRLEWQLK LQELDPATYKSISIYEIQEFYVPL VDVNDDEFELTPI
16394	46762	A	16491	1	699	
16395	46763	B	16492	6	5954	
16396	46764	A	16493	22	585	
16397	46765	A	16494	1	837	
16398	46766	A	16495	1	1422	
16399	46767	A	16496	13	189	
16400	46768	A	16497	193	366	GRPGIFKSFCRWW*C*FHMEFI WKSSA*/WSGVWHAGNICLSIS NPEDLRASQFCSSG
16401	46769	A	16498	1	888	
16402	46770	A	16499	3	531	DAWADAWADAWADAWALQS RRRRRTQLTLSSPHDCYRGLQ SLLLILCKMATLKEKLIAPVAEE EATVPNNRITVLGDGQVGMA CAISILGKSLADELALVDVLED KLKGGNDGSFQHG\SLFL\QTPK IVGRIKDYSG\TAQF*RIVVGN WQGVRSARRGKVRNLVQRN VNVFK
16403	46771	A	16500	2	406	
16404	46772	A	16501	2	394	
16405	46773	A	16502	1	399	
16406	46774	A	16503	74	464	FAFNMPEPAKSAPAPKKGSKK AVTKAQKKGDKKRKRSRKESY SVYVYKVLKQVHPDTGISSKA MGIMNSFVNDIFERIAGEASRL AHYNKRSTITSREIQTAVRLLLP G\ELAKHAVSEGTK\AVTKYHQ
16407	46775	B	16504	84	832	
16408	46776	B	16505	201	829	
16409	46777	A	16506	1	804	

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16410	46778	A	16507	3	615	PECHIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPiWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGPAlFCR* LLSF*ETALGLLLGFGGN*TFDY
16411	46779	C	16508	25	153	
16412	46780	A	16509	1	1317	
16413	46781	A	16510	1	1557	QVPGCIIGIDILSSWQNPiHIGSLT GRVRAIMVGKAKWKPLELPLP RKIVNQKQYHILGGTVEISATIK DLKDTEAVTPTTSPFNSPiWPV QKTDGSWRMTVDYCKLNQVV TPIAAAVPDV/VSLLEQINTSPG TWFEWSPK\KALQQVQAAVQA ALPFGPYDPADPMVLEVSAD RDAIWSLWNAAGESQRRPLGF WSKALLSSADNYSPFERQLLAS YWALVETERLTVGHQVTLRPE LPIMNWVLSDPSSHKVSGAQQ HWKCAVHT/IKWKWYIRDWA QAGLEGTS*LYWPRASRYQQG HQDLFILRSDLPsQVFIRDKLME RRNRRTGRTEKARIWEVTDRt VRTWIGEAVAAAAADGVTFsV PVTpHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEvyTKVF ALDVAARHRVQFAMPESDAVA MLKQLS
16414	46782	A	16511	41	428	
16415	46783	A	16512	1	1026	

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16416	46784	A	16513	648	1886	LDPEVAWAKWQHSTVKGPQK QFAFSWQGQQYTFTGLPQGYIN SLSLCYNLIPRDLDRFSLPQDIT LVHYIDDIMLTGSSEQELAYTL DLLVRRLCAKGWEINLTEIQEA STSVKFLRVQWCGACQDIPSK MKDKLLHLFPPTTKKKASLFGF RRQCIPHLECGPEQEKAQQAAQ AAVQAAVPLERYDPADPMVL/ V/ELTWLWPLLSAQFASSGDQH *ALHMAPFLGVVSQLPGGKLIIL DIFHHGKGRVLSLE*TLTPDM GLPILHIMLLPRLPSVNSQNALS TVMPGFTGPGIKGWKWHHSPS PLVIH*QNFCFLFP*HYVLLA*R S*FQRKEPCHQET*Q*FH*TGS* GCQLDTLGSCYF*VNKLRLRELQ CWLG*LTQTIKMKSVYYSITEN CWMKRSPVKRRKILELEEA
16417	46785	A	16514	1	402	
16418	46786	A	16515	1	396	PTRPGRSVHVEIPRRVGSGAG HAQWAGPVRVARPQLNAQLE GWLSQVQSTKRPARAIAPHAG YTYCGSCAAHAYKQVDPSITQ RFRYSYYDESQGEIYRSIEHLDK MGMSIIEQLDPVSFSNYLKKYH
16419	46787	A	16516	2	358	
16420	46788	A	16517	2	769	
16421	46789	A	16518	1	1017	
16422	46790	C	16519	54	294	
16423	46791	A	16520	159	245	GISVSCSMYL*PDRSAGYYGLF KDRKEK
16424	46792	A	16521	1	1227	
16425	46793	A	16522	1	2697	
16426	46794	A	16523	200	696	YGIVTGPSLCAGDKQPKKQEK NPVLVSPEFVDEALCACEEYLS NLAHMDID/IGPGGPAVPQPPRA GPSSSSVTSPGPVSPLQLGLWA VGRCLGIDPFCLVQPLPLPQASR SFTPLFCSGTLEDHCLDRVW ATFLGWSHSIVTKSMDCATKW TAHYPKCVLCGC
16427	46795	B	16524	1	960	
16428	46796	B	16525	1	2183	
16429	46797	A	16526	306	1844	
16430	46798	A	16527	59	189	YNSGCLYGSCSVCRCL*GVRN QVRSQQQAMMAMAILVNKKG G
16431	46799	A	16528	1	2034	
16432	46800	B	16529	1	855	
16433	46801	A	16530	1	834	

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16434	46802	A	16531	65	172	
16435	46803	A	16532	321	429	
16436	46804	A	16533	460	647	
16437	46805	C	16534	529	804	
16438	46806	A	16535	3	433	
16439	46807	A	16536	1	484	
16440	46808	A	16537	511	681	QQGYTPFQSGGRESFLASSFW WL/PGLPWLA*AA*LQALTPSSH SLLSYLCSLLFCHP
16441	46809	A	16538	51	634	PVPTFGLPARHTGAEKRRKNSG GEQLSKNNLYIRGLPPGGTDQD LIKLCQPYGKIVS\TRAFDCKTTI RCKGYGFVDFDSPA*AAQKAVA SLKANGVQAQMAKLQERDPA\ GLSVSSLL\SMYEQELENMLK PFGHVISTRILRDANGVSRGVG FARMESTEKCEVVIQHFNCKYL KTPPGIPAPSEPLLCKIADG
16442	46810	A	16539	1	759	
16443	46811	A	16540	74	352	
16444	46812	A	16541	1	747	GSAVYLCYKKSVAKTNTVSYK AGLICRYPQEDYESFSLPESVPL FCLPMGATIECWPSNSKYPLPV FSTFVLTGASAEKVYGA*AIQFY EPYSEENLTEKQRLLLGLTSAD GKSDSSKTIHTNKCICLLSHWPF FD\AFRKF*LTFLYR\YSISGAHVL PIEKHISHFMHKVPFSPQRPRIL VQLSPHDNLILSQPVSSPLPLSG GKFSTLLQNLGPENAVTLLVFA VTEHKILIHSLRPSVLT*SVTEAL
16445	46813	A	16542	319	969	
16446	46814	A	16543	131	342	NSDMGLNLGSALTG*PWVAIEF CCFGFFQIIIVFSCLLGWL*VAP HPNLPSSPAEYMDFRE*AEQEGTD VIY
16447	46815	A	16544	1	1086	
16448	46816	A	16545	469	759	
16449	46817	A	16546	3	598	
16450	46818	A	16547	227	604	
16451	46819	A	16548	416	1814	
16452	46820	A	16549	763	867	
16453	46821	A	16550	1	1419	

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16454	46822	A	16551	915	3125	SLAGMRLTGTVSGGEVRV/TAK AGARVGPPPELVGRPLEGECWY FSGVSR TQAQQLLSPPNEPGA FLIRPSESSLGGYSLSVRAQAKV CHYRVSMADGSLYLQKGRLF PGLLELLTYYKANWKLIQNPLL QPCMPQKAPRQDVWERPHSEF ALGRKLGE GYFGEVWEGWL GSLPVAIKVIKSANMKLTDLAK EIQTLKGLRHERLIRLHAVCSG GEPVYIVTELMRKGNLQAF LGT PEGRALRLPPLLG FACQVAEGM SYLEEQRVVHRDLAARNVLVD DGLACKVADFG LARLLKDDIY SPSSSSKIPVKWTAPEAANYRV FSQKSDVWSFGVLLHEVFTYG QCPYEGMTNHETLQQIMRGWF FGCISRSEAVRRLQAEGNATGA FLIRVSEKPSADYVLSVRDTQA VRHYKIWR RAGGRLHLNEAVS FLSLPELVNYHRAQSLSHGLRL AAPCRKHEPEPLPHWDDWERP REEFTLCRKL GSGYFGEVF EGL WKDRVQVAIKVISRDNLLHQQ MLQSEIQAMKKLRHKHILALY AVVSVGDPVYIITELMAKGSLL ELLRDSDEKVL PVSELDDIAWQ VAEGMCYLESQNYIHRDLAAR NILVGENTLCKVGDFGLARLIK EDVYLSHDHNIPYKWTAPEALS RGHYSTKSDVWSFGILLHEMFS RGQVPYPGMSNHEAFLRV DAG
16455	46823	A	16552	1	990	
16456	46824	A	16553	1	2847	MTAREHSPRHGARARAMQRAS TIDVAADMLGLSLAGEPHRACT GLQTTGY PGL\DP SG*TRK*GRG MSALFL* TASAGA* LH*FSSLVA GAPPG*CGNVQVF/WLAHAQA MGTNNPIFLSSIAFFQDSL INQM TQVKLSVYDVKDRSQGT VKSA ESDRVGNITVIGWQMEEKSDQ RPPVTRSVDTVNGRLHPPAPT V MHSLSHRHSKKNSNFRALALM VLPVDESLTEALGIRSKYASLR KDTLLKS VFGGAICR
16457	46825	A	16554	1	327	
16458	46826	A	16555	259	3109	
16459	46827	A	16556	262	3159	
16460	46828	A	16557	1	1398	
16461	46829	A	16558	123	393	
16462	46830	A	16559	245	424	

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16463	46831	A	16560	1	531	
16464	46832	A	16561	2348	2775	
16465	46833	A	16562	373	555	LRIQVTFDDVAVEFTPEEWALL DTTQKYLYRDVMLAENYMNLA SVGKSNITLLGMVACTCS
16466	46834	A	16563	165	457	
16467	46835	A	16564	310	349	K*TMK*EMGKFK*FY/IYLEQED YANANALLSPAPALPKEKRTDS NGRVYFVNHNTRITQWEDPRS QGQLNEKPLPEGWEMRFTVDG IPYFVDHNRRTTTYIDPWSTRP
16468	46836	A	16565	1	2217	
16469	46837	A	16566	1402	1860	
16470	46838	A	16567	461	696	KRMCFCTSLSSARSSGSMYMSC RICCSMMPPFSSVFRSISRYSR AAFWAWTETRLCWQAAMPRQ QPPGLLHQWTTSP
16471	46839	A	16568	1	601	
16472	46840	A	16569	468	1213	
16473	46841	A	16570	2	365	EGCFQKIKLDHILSPPPMPFWK CSNPDVAFGPGKSLKYKRQLS* DGRQLRRGSLGGALTGRYLLP NPVAGQAWPASAETSNLVGMR SQALGQSAPSLTASLPCVSKCW ENIPPWMNCPIK
16474	46842	C	16571	220	408	
16475	46843	A	16572	840	1091	QSLQHDVTL*VPVLLSYPEPAPS GHGLLRGSAQIAL*TIADPAGT YLKTREPTLGCQTVPLPAPHLS VDTVCRCLSSSVWPQ
16476	46844	A	16573	1	1356	
16477	46845	B	16574	1	1084	
16478	46846	A	16575	2	526	QPRGKKFSKNKPRKQNFPTPKH MRVVLPPF/PPLKFFIFPKGLKFL EGGCPNISPPQKKGSLPKIPR*V LIRPPIRKKLFPCTARVKLGPPQ GSFKTAAPSSSSP*SADPVYLAG K/PRQSSSPGGTGGLNPPPRRLQ PQPHPGPSWHSSSSRGPGGHPR RESAERSRCASGNPGGQ
16479	46847	A	16576	36	167	RQLFENTQSDETKQEQNKQNK K*STATESRKVPQTGKSKSYWP
16480	46848	A	16577	171	527	
16481	46849	B	16578	1	471	
16482	46850	A	16579	1	294	
16483	46851	A	16580	185	299	GLQYLKGKSGLKVKRGKVV*S ACCKKKGAALGTVASPL
16484	46852	A	16581	3	414	

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16485	46853	A	16582	462	928	WGVPLPGRHLLPLPSQPPPSW LSILYVSWAALTCFLNSGESTA AKFFCPNLSAISYHTEAIPTTWQ GVHLSWAFGNGAPDIFSGPGGL L*PA/PQP/DLALGALFGAGVLV TTVVAGGITTLLFIQHHTTQEI H*QIVQWIKTTL*ILATVSYVIG
16486	46854	A	16583	1	654	
16487	46855	A	16584	66	323	RVSLEIHVIQKRRPHLSLLSFW TRMKTFRRRK/WGEAEESATDT TSETNKVGTGVFVLSLVVPVL VRNLAGPGVVGLGNICKHFPVC
16488	46856	A	16585	1	1530	
16489	46857	A	16586	615	873	FVFLWSLMMVMYRWGFGVAV LSVC*FSF*QSGPSAAGLLEFAG GPFQTPFAWVSVEAAEQRIML NSKRCCVIVPLVVSSQGRTRP
16490	46858	A	16587	286	626	PCKLFPCNTCYSRV*DFFRVA GKRSLNNTYSWVNTSMLVPR VAFACGFPLQQAAVLCVHLLG SPILGAADSSVTPFCWMANAH ICGLQLQNTLSFAEPIYLGQEHA QLS
16491	46859	A	16588	226	489	PYLSVIFFFDYGINEEQCRPIQ GDGQNFHRHNGWIKINPSCISF AIFFPFGAEKNMWSTPVTEAFN LLST*AF*LFGYKCTLVISS
16492	46860	A	16589	1	1344	
16493	46861	A	16590	1	257	
16494	46862	A	16591	73	374	ESETEHKRPGKHSPKRSCNMCG QWAFHASLTVSYCLLTWCNET CSGDGCEGMRIDIDPPVSQTR FFITLL*LCFPGAGQPAYFCTQ TQCHVETPRVSQ
16495	46863	A	16592	1	666	
16496	46864	A	16593	95	1840	
16497	46865	A	16594	1740	2026	
16498	46866	A	16595	39	487	SRLDPRVRLFRQFCETRPGLC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTPKSPVIAQVGQ DLVSQTEEKLLQPKELFSAC AQSVHEYLRGEPFHEYLD SMFF DRFLQWKWLE/RVCACQVRAT GK\MYACSRLEKKRIQKRK
16499	46867	A	16596	1	591	

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16500	46868	A	16597	71	1994	EQEQRGRQGGLLAPPAPAAAA AARAAAAAAAAAPQALTAPPAG SVADRRLSMELENIVANTVLLK AREGGGGKRKGKSKKWKEILK FPHISQCE\SLRRTIDRDYCRVC DKQPIGVRLFRQFCETRAPGLEC YIQFLDSVAEYEVTPDEKLGEK GKEIMTKYLTPKSPVFIAQVGQ DLVSQTEKLLQKPKELFSAC AQSVHEYLRGEPFHEYLD SMFF DRFLQWKWLERQPVTKNTFRQ YRVLGKGGFGEVCACQVRATG KMYACKRLEKKRIKKRGESM ALNEKQILEKVNSQFVNNLAY AYETKDALCLVLTIMNGGDLK FHIYNMGNPGFEEERALFYAAE ILCGLEDLHRENTVYRDLKPEN ILLDDYGHIRISDLGLAVKIPEG DLIRGRVGTVGYPMAPEVLNNQ RYGLSPDYWGLGCLYEMIEGQ SPFRGRKEKVKREEVDRRVLET EEVYSHKFSEEAKSICKMLLTK DAKQRLGCQEEGAAEVKRHPF FRNMNFKRLEAGMLDPPFVPD PRAVYCKDVL DIEQFSTVKGVN LDHTDDDFYSKFSTGSVSIPWQ NEMIETECFKELNVFGPNGTLP PDLNRNHPPEPPKKGLLQRLFK RQHQNNSKSSPSSKTSFNHHINS
16501	46869	A	16598	1	963	
16502	46870	A	16599	192	609	RPKGARELRLHPGPRYGRTPSQ NCPWARPGCLHEAL*G\WKICL HCKCPQEEHMTVMPLMEKT ISKLMFDFQRNSTSDDDSGCAL EEYAWVPPGLKPEQVHQYYSC LPEEKVPYVNSPGELRIKQLL HQLPPHDNEV
16503	46871	A	16600	1	915	
16504	46872	B	16601	30	820	
16505	46873	A	16602	99	248	RLEKHINCSRV*SWAASPLTA AA YRVTLNPPGTFLGVAKVG QYTFT
16506	46874	A	16603	1	717	
16507	46875	A	16604	271	556	TAACLQSHHFKSSGQLSFERKW PKVGTITRSIASLLSGPVFGLHH LAFSAHVPREGPTTPWNYFPRV AAP/RRWTPGEHARTTTGLGAA PCVLLWA
16508	46876	C	16605	135	341	
16509	46877	A	16606	125	226	
16510	46878	A	16607	194	547	

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16511	46879	A	16608	2073	2338	
16512	46880	A	16609	1127	1282	
16513	46881	C	16610	1	2094	
16514	46882	A	16611	523	706	QHPLPNPCCHQPFHLCLRR*TL HCLRQQ*WPPLRQLPGKIMLIL LRSHQHPCLLLDLQLD
16515	46883	B	16612	190	805	
16516	46884	B	16613	90	2812	
16517	46885	A	16614	44	216	RCRRRLIPHPRRLSPVVIRRIQVP Q/VQPGAGPSRPGHTRDPIGAA AAHCPCPGDSGAH
16518	46886	A	16615	1	1107	MTEEPLQALVLSAVLLYQEAY VRRSLTALGLDTFANFAHFSEM QPLSDAPCGLVTGVTRPLVAYS VEVGGFTIICGLSLASGNISGWC QLYLLLTQCRRGAATLWDSGM GGGRQSSRQTSVPRWTLDSKCI PGPKLTTRPQMDTKALGGQQA HVEHQTHEDIRPQVDTQAPGG HKALGEQQDPVGHQASVGYS QVPQDSLGGALAGQATPEIPLG LQLHTVLVQEIQELIEAQTRAP GPCAEVRALPAPAAEPEPAWEE APPERALELEGAPAKDQTNEEL PEITA/PYC/EPLALTLELKAWLE RKVGGRGDQHSPPSQLPCCP*S WARWQTCRQRAGHLAWPPVP RCREASLIH*NHSPAAAGPFILL
16519	46887	A	16616	1	792	
16520	46888	A	16617	1	963	
16521	46889	A	16618	1	378	
16522	46890	A	16619	1	494	MKPRTLAVSVTVLKGGSVRVC SFWCSDVFRVSSFWVVRGLAD SGVKLRTFAVSVTPLKAARLEL FVPPGGFVVSLASGVKLQPFV SVTAHKGSVDPKSEKQDQLLQ RGKEQSYHTGEGHPSRLP/PAG SGSLLLFSLAPPTSC*LVQPSG LF*QGADWCIYNP
16523	46891	A	16620	137	262	

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16524	46892	A	16621	1	2786	EVSLREATQRKLRRFSELRGKL VARGFWDIVAITAADEKQELA YNQQLSEKLKRKELPLGVQYH VFVDPAGAKIGNGGSTLCALQC LEKLYGDKWNSFTILLIHSDEW KKKVSESYVITIERLEDDLPIKE KELTELNRNIFGSDEAFSKVNLN YRTENGLSLLHLCCICGGKKSH IRTLMLKGRLRPSRLTRNGFTAL HLAVYKDNAELITSLHSGADI QQVGYGGLTALHIAIAGHLEA ADVLLQHGANVN
16525	46893	A	16622	174	722	
16526	46894	A	16623	1	1554	
16527	46895	A	16624	1	843	
16528	46896	A	16625	2	745	ECWDGEHDIETPYGLLHVVRG SPKGNRPAILTYHDVGLNHLKC FNTFFNFEDMQEITKHFVVCHV DAPGQQVGASQFPQGYQFPSM EQLAAMLPSVVQHFGFK\YVIGI GVGAGAYVLAKFALIFPDLVEG LVLVNIDPNGKGWIDWAATKL SGLTSTLPDVLVSHLFSQEELVN NTELVSYSRQQIGNVVNQANL QLFWNMYNSRRDLINRPGTV PNAKTLRCPVMLVVGDNAPAE DGVVECNSK
16529	46897	A	16626	3	949	
16530	46898	A	16627	1	633	
16531	46899	A	16628	2	1324	
16532	46900	A	16631	1	591	
16533	46901	A	16632	138	832	
16534	46902	A	16633	55	586	IFVHPTPAASTMPSKFDPNKIV VYLRCTGGEVGATSALAPKIGP LGLSPKKVGDDIAKATGDWKG LRITVKLTIQNRQAQIEVPSAS ALIHKALK\EPDRDRKKQKNIKH SGNITFDEIVNIARQMRHSLAR ELSGTIKEILGTAQSVGCNVDG RHPHDIIDDINSGAVECPAS
16535	46903	A	16634	1	735	
16536	46904	A	16636	3	346	
16537	46905	A	16637	57	649	GPRRAYGGRMAGGGGDLSTRR LNECISPVANEMNHLPAHSHDL QRMFTEDQGVDRLLYDIVFK HFQR\NKVEISNAIKKTFPFLEG LRDRDLITNKMFEQSQDSCRNL VPVQRVVYNVLSELEKTFNLPV LEALFSDVNMQEYPDLIHYYKG FENVIHDKLPLQESEEKEREERS GLQLSLEQGTGENSFRSLTWPP

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16538	46906	A	16638	1	1665	
16539	46907	A	16639	348	1534	
16540	46908	A	16640	1	627	
16541	46909	A	16641	1	1343	
16542	46910	A	16642	76	479	IRAVSRSRERPGSRRLQAC*G GGAFFGP*SAEISRLVRSHNLGG YSCT/EGGGGCRKGSCLLQHSC LLWHSCLLPASKNTVCSKDLG GCSCTQESRAPACSWSPRTQGG SASSHDLGSCRNAWETPSRQLG RSW
16543	46911	A	16643	130	675	
16544	46912	C	16644	118	420	
16545	46913	A	16645	1	987	
16546	46914	A	16646	1	494	
16547	46915	A	16647	360	1510	
16548	46916	A	16648	375	2187	VTAAAAATAMAESGESGGPPG SQDSAAGAEGAGAPAAAASAE PKIMKVTVKTPKEKEEFAVPEN SSVQQFKEEISKRFSHTDQLV LIFA\GKILKDQDTLSQHGIHDG LTVHLVIKTQNRPDHSAQQTN TAGSNVTTSSTPNSNSTSGSATS NPFGLGGLGGLAGLSSLGLNTT NFSELQSQMQRQLLSNPPEMMV QIMENPFVQSMLSNPDLMRQLI MANPQMQQLIQRNPEISHMLN NPDIMRQTLELARNPAMMQEM MRNQDRALSNLESIPGGYNALR RMYTDIQEPMLSAAQEQFGGN PFASLVSNSTSSGEGSQPSRTENR DPLPNPWAPQTSQSSSASSGTA STVGGTTGSTASGTSQSTTAP NLVPGVGASMFNTPGMQSLLQ QITENPQLMQNMLSA PYMRSM MQSLSQNPDLAAQMMLNNPLF AGNPQLQEQMRQQLPTFLQQM QNPDTLSAMSNPRAMQALLQI QQGLQTLATEAPGLIPGFTPGL GALGSTGGSSGTNGSNATPSEN TSPTAGTTTEPGHQQFIQQMLQA LAGVNPQLQNPEVRFQQQLEQ LSAMGFLNREANLQALIATGG DINAAIERLLGSQHHSISVS
16549	46917	A	16649	269	440	
16550	46918	A	16650	469	746	RLNLPGLCAGTSILFAVLMEAI GVSCIRQAGGGHVASHIY*GLM /PALAL*DTEPRNPSALPETCLC GSGPQSQMGHQTSHLLSSPGTG LSF
16551	46919	A	16651	1	1026	

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16552	46920	A	16652	719	906	
16553	46921	B	16653	1	1971	
16554	46922	A	16654	200	239	
16555	46923	A	16655	109	177	
16556	46924	A	16656	1	1542	
16557	46925	A	16657	1	453	
16558	46926	A	16658	2	487	
16559	46927	A	16659	1	1260	MEDAEGTVTLAVTLVARDLN CIQPQTGPSGGIPEESIVIIGDVSS MHVIAPEDLPVGQDVEVEDSDI DDPDVPRALPLQIHACGRVGFE AHDDWSEGGDPAADTLIDPSQ DARYLKCEGMQAPHNSNPVAQ KTEISYHIWIARIPREKSGKVTG TLCDLLKDLTVIHSILPKQGCSD GLGVLVQGTGFPQGNLDTCTC QVSAVEGKGEGLMQLASLSRR VTIWAYGDSQERDLKTQLEKIT AIKDMKEMQEKEYRIMEKAHS RQRKQHHKGPERKEQAAIFAV LQPPLVITRQTGSGVDPQKTPA DLQKRCRTVRRKTSQKAVAS TLTKRITTQKLNAKDHNSPTR EQNCTENEFDELTEVGFRWVI TNSSELKEHVLTCCKEAKNFDK RLEELLIQITSLEKNISDLMEI*S FALSFCVVILFVNVDATAFCWL VFLITVRHLFCRSAGVFWGSTP DPVCLVITSGGCRTAKIAACSFL SGPLWCCFLCLEWAFSIIYSFS CISFMSLIAVIFSNWVLRSL
16560	46928	A	16660	1	799	
16561	46929	A	16661	1	969	MHVIAPEDLPVGQDVEVEDNDI DDPGQAKKTMEEQWTLVSLLS TSQQQGPVPPGSTASSATDKLS RWELTLLYSTTLFLAREAFRA CLSGGTQRDWSQTLNLLWLT PLGVFWSLFLGWIWLQLLEVPD PNVVPHYATGVVLFGLSAVVE LLGEPFWVLAQAHMFVKLV AESLSVILKSVLTAFLVLWLP WGLYIFSLAQLFYTTVLGLCYV IYFTKLLGSPESTKLQTLPSRIT DLLPNITRNGAFINWEEAKLAW GFFKQFFLKQILTEGGRYVGG HFLNVLNFGDQGVYDIMNNLG SLVARLIFQPIEESFIYS
16562	46930	A	16662	1	1665	

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16563	46931	A	16663	1	1521	MDVSSPPCVDGVSILPPLLIPRQ TGSGVDLQQNPTDLQLRVLT KRKTNKQKGHPHQNSICTSPSS KTKEYTFFSVQHHHTYSKIDHIV GSKAVLSKRKTIEIITNCLPDHS AIKLELRKKLTQNHKTTWKQN NLLLNDYWVHNKMKAEIKMFF ETNKNKDDTTYKNLWDTVKAV CRGKFIALNAHKRKQERSKIDT LTSQLELEKQEQTSHKASRRQ EITKIRAELEKETQKTVQKIHS RSWFFEKINKIDRPLAGLIKKR EKSQKDAIKNDKLDITDPTET QTTIRDYHKHLYAIKLENLEEM DKFLDITYTLPRLNQESLNRPTG SEIEAINSPLTKKKYRTRRIHSR ILSEVQGGAVLEVLAIRAEK EIKCIQLGKEEVKLSLFADDMIV YLENPTVSAQNLLKLISNFSKVS RYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKED/N KWKSIPCPRIGRINIM
16564	46932	A	16664	2	2315	
16565	46933	A	16665	1	912	
16566	46934	A	16666	1	912	
16567	46935	B	16667	199	619	
16568	46936	B	16668	64	1815	
16569	46937	A	16669	1	239	
16570	46938	A	16670	1	242	FREDGKTACGHEPSPVLLGLRL GLQPWG*GWGCSHGAGSAPDL VAGSAHSCGLWLPGLSHHHPA QCLPALLCGHLCLSVQDQQNG LLGR
16571	46939	A	16671	58	505	ASSRTRPSCTLARGRRWFPQPL SGRQRQRGGRRGSRVG/YGTA QNSTTLTSPAASASEATVSGHW PSTAPCCVPAGAG/SATMWRSP A*AACGSAAWTSTWSRRSPGP GAAAGYGGVRTFCQPAGLTR/L ANRSTAGLCGWGLTSCRETEL
16572	46940	A	16672	242	2952	
16573	46941	B	16673	474	2690	
16574	46942	A	16674	97	451	
16575	46943	A	16675	667	893	

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16576	46944	A	16676	3	639	RIRVHPTPAAFTMPPKFDPNKIG VGYLRCTGGEVVGATSALAPKIG PLGLSPKKVGDDIAKATGDWK GLRITVKLTIHNRQAQIEVAPSA SALIICALKEPPRDRKKLKILKL SGNITFDENGNICSTDMR/HRSL SRELSTTKEILGTAQSVGCNV DGRHPHDIIDDINSENDKQPRKS KMRTSFSPQIPGHEHFHYLLLL QHVHCQLALT
16577	46945	A	16677	350	984	VYLEVAPGGESRLPLSALGPQR IGPPGSCLPKKS WVNDICQRQP G\DWKGP*GLQVKLTHSRTGQ APDCTRVP/VLPSCP*FIQSPSRE PPKRPEKKPEKTFKHQLGIFTFL NEICSTLLRQMR\HRSLSPEKLS\ GTPLKEIPGGLPQSSWAGNV*W AAIPHD\IDDIQQWVLWKCPAV SDIFIVTVGVKGGPPSVFTEISW EVLEMVTGGVG
16578	46946	A	16678	252	964	
16579	46947	A	16679	1	182	
16580	46948	A	16680	275	639	
16581	46949	A	16681	376	418	
16582	46950	A	16682	1135	1591	
16583	46951	A	16683	3	420	AAKEIEVGGGRKAIKSFQKIQV RLVRELEKKFSGKHVVFIARR ILPKPTRKSRTKNKQKRPRSRTL TAVHDAILEDLVFPSEIVGKRIR VKLDGSRLIKVHLDKAQQNNV EHKVETFSGVYKKLTGKDVNF EFPEFQL
16584	46952	A	16684	1	879	
16585	46953	A	16685	2	691	HEEKAMFSSSAKIVKPNGEKP\ DEFESGHLPLGFLELEMNSDL KASAQGT*IITAS*RKLKVGGS ESLFH*SFVPRSLKLTFPQKNP KVRA*LRRIGKKKVPVGKAMS VLYPPSEGEFLPLSPTSEKARTK K*AKSRPPGARTLDKLVHDAH PLRDFGPFPSGNFWAKRIPRSNL DGQPGSIKVPFWTKAQQNQCW NTRVETFFLVSYK\LTGQGC*F LEFPRVFN

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16586	46954	A	16686	1	452	TLLVIPRKMRS AVELQQTSTDL QLRDLTVRKKTNRKATASTS QKGHLHQNPICRSPTSKTKEVG FRRSVITNFSELKEDVRTYHKE AKNLENRLDEWLTRINSVEKTL NDLKELKTMARDLHDACTSFN RRFDQVEERVTVTEDQIN*QTE SNSINFTKRSSTPKPHLARSPTSK TKEVGFRRSVITNFSELKEDVR TYHKEAKNLENRLDEWLTRINS VEKTLNDLKELKTMARDLHDA CTSFNRRFDQVEERVTVTEDQI
16587	46955	A	16687	1	618	
16588	46956	A	16688	280	353	SCNSIFARSVRACCS*VASSSFC C
16589	46957	A	16689	1	459	IKYSSPMKSTFVDPVDPVAVAV IYCLAAGLVIIIPFFQLVPLKEE KMVLLNMDYYEMASLSLVTH RNEAPFSGRVRSSLPATEQSWM ENDFDKLTEVGFRRSVITNFSEL KEHVLTHHKEAKNLEKRLDKW QTRINSVEKTLNDLMELKTMA* EEKMVLLNMDYYEMASLSLV HRNEAPFSGRVRSSLPATEQSW MENDFDKLTEVGFRRSVITNFS ELKEHVLTHHKEAKNLEKRLD KWQTRINSVEKTLNDLMELKT
16590	46958	A	16690	2	403	LALSGEMTLVLFMLLAGGWWT HDKPEPMPRAATSGGTRKGKT KAALKDLIATWKEVCVSSPATE QSWMENDFDELTEVGFRRSVIT NFFKLKEYVLTHHKEAKNLEK MLDEWLTRINSVEKTLNDLME LKNMA*ELTEVGFRRSVITNFF KLKEYVLTHHKEAKNLEKMLD EWLTRINSVEKTLNDLMELKN
16591	46959	A	16691	1	676	
16592	46960	A	16692	1	1965	
16593	46961	C	16693	1	3075	
16594	46962	A	16694	78	152	CAAGFGLPVFY*GFLHRCSLGIL V
16595	46963	B	16695	1	904	

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16596	46964	A	16696	1	2026	EQEASYGRDAFAKAIYERLFC WIVTRINDIIEVKNYDDTIHGKN TVIGVLDIYGFEIFDNNSFEQFCI NYCNEKLQQLFIQLVLKQEQEE YQREGIPWKHIDYFNNQIIVDL VEQQHKGIILDDACMNVGK VTDEMFLALNSKLGKHAHFSS RKLCSADKILEFDRDRIRHYA GDVVYSVIGFIDKNKDTLQDF KRLMYNSSNPVLKNMWPEGKL SITEVTKRPLTAATLFKNSMIAL VDNLASKEPYVRCIKPNDKKS PQIFDDERCRHQVEYLGLLENV RVRRAGFAFRQTYEKLHRYK MISEFTWPNHDLPSDKEAVKKL IERCGFQDDVAYGKTKIFIRTPR TLFTLEELRAQMLIRIVLFLQKV WRGTLARMRYKRTKAALTIIR YYRRYKVKSYIHEVARRFHGV KTMRDYGKHVKWSPPKVLRR FEEALQTIFNRWRASQLIKSIPA SDLPQVRAKVAAVEMLKGQRA DLGLQRAWEGNYLASKPDTPQ TSGTFVPVANELKRKDKYMN LFSCHVRKVNRFKSKVEDRAIFV TDRHLYKMDPTKQYKVMKTIP LLQLTCLNVSNKGDKQLVVFHT KDNKDLIVCLFSKQPTHESTRIGE LVG\VLVNHFKSEKRHLQV\NV TNPVQCSLHG\KKCTVSVETRL NQPQPDFTKNRSGFILSVPGN
16597	46965	A	16697	1	1665	
16598	46966	A	16698	1727	1908	FLFFYIC*RELYFQLCGQFWNK CNVLLRRMYILLIWGGGEFCRYQ LGLLGAELNSVPGYHC
16599	46967	A	16699	1	384	
16600	46968	A	16700	1	636	
16601	46969	A	16701	1744	2283	
16602	46970	A	16702	194	368	
16603	46971	C	16703	62	205	
16604	46972	B	16704	1	1257	
16605	46973	A	16705	1	1077	

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16606	46974	A	16706	1213	1228	AQN*QTQRTSTPKPHLSSPSTK TKENDFDELREEGFRRSVITNFS KLKEDVRTHRKEAKNLEKRLD EWLTRINSVEKTLNDLMELKT MAQELRDYTSFSSRFQVEER VSVIEDQMNDMKREEKFREL/K RVQRNEQSLQEIWVYKRTNL RLIGVPEKIQTIREYYKHLN KLENLEEMDKFLDYTCPRLN QEEVESLNRPTGSEIEAIIINSLP TKKVQDQADSQPNSTRVFKTV CISSLGHTTASADTQDVCQLPV TSLLEQGLSSKSAGFLDYAVQR LWLLGTEPL
16607	46975	A	16707	33	263	
16608	46976	A	16708	204	1756	
16609	46977	A	16709	760	821	TMRTHGHRKGNL*QR/R**PEST KNSNKFTTRKNQTPSKREWMK LETIILSKLSQGQKSKHRMFSLI SGN*TMRTHGHRKGNITHWGL LWG
16610	46978	A	16710	1	879	
16611	46979	A	16711	311	514	KNAHHQWPSKKCKSKLQ*DTIS HQLWQSLKSQETTGTMRMKME TITLSKLSQGQKSKHCMFSLIGG N
16612	46980	A	16712	24	1268	AGLCAARARMRLFRWLLKQPV PKQIERYSRFSPSPSLIKQFLDFG RDNACEKTSYMFRLKELPVRL ANTMREVNLLPDNLLNRPSVG LVQSWDMQSFLELL*YENKSPE DPQVLDNFLQVLIKVRDRHND VVPTMAQGVIEYKEKFGDPFI STNIQYFLDRFYTNRIFRMLIN QHTLLFGGDTNPVHPKHIGSIDP TCNVADVVKDAYETAKMLCE QYYLVAPLEVEEFNAKAPDKP IQVVYVPSHLFHLFELFKNSM RATVELYEDRKEGYPAVKTLV TLGKEDLSIKISDLGGGVPLRKI DRLFNMYSTAPRPSLEPTRAA PLAGFGYGLPISRLYARYFQGD LKLYSMEGVGTDAVIYALKALSS ESFERLPVFNKSAWRHYKTTPE ADDWSNPSEPRDASKYKAKQ
16613	46981	A	16713	175	465	
16614	46982	A	16714	240	381	FFLSFPPLCQSS*NQNLLPW/ICA KVCSFTPEVSKTTNPLEGRNSG HI
16615	46983	A	16715	268	1524	
16616	46984	A	16716	1	378	

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16617	46985	A	16717	708	987	IQLPGHRSQGG\AGASHTDARQ QDPGNHSHDFVRHSHSLPCLER QDRRSAGHNGSATVPGTEACG RAYKAPAGHYHSGAGQSLPAA SHRSFSSP
16618	46986	A	16718	1	2052	
16619	46987	B	16719	1	606	
16620	46988	A	16720	1	541	QHQRKQKRQLRAQQNLSWEEI AKEYQNEEDSLGGSRVVVDI NKEMLKVGKQKALAQQGYRAG LAWVLGDAEELPFDDDKFDIYT IAFGIRNVTHIDQALQEAHRVL KPGGRFLCLEFSQVNNPLISRLY DLYSFRVIPVLGEVIAGDWKSY QYLVE\SIRRFPSQE\KFKD\MIE DAGFHKVTYESLTSG\VAIHSG FKL*FLCLEFSQVNNPLISRLYD LYSFQGHPCPRGHRWRLEVLS VPCREVSEGFLRKEFKDHDRR CRLSTR
16621	46989	A	16721	526	933	
16622	46990	A	16722	191	468	
16623	46991	A	16723	2	677	GKVHVLERRGFHRTEMHLQKI LLLPVLSSSSSDP/STLSVSALV RMFSSADE*SVSEASSSEPSSFS RRSSCSFGSEPSFASFSSFPDL ASLSSVFLLFRAFSSSHVM*WL PSSS*VGS/STSARAQLPSYVPSF SVKTKSGLKSALRFFPKAFCL PSTMGPSSSSSPESDSALHRHLV ILDVWLQIKPRVRKPCCRRSHF RKRAQPAVRPLTFRSLLVVLR
16624	46992	A	16724	31	187	
16625	46993	A	16725	215	947	
16626	46994	A	16726	1	378	
16627	46995	A	16727	2	7567	GGGGARRQRRGDAGGGAETAP SEILSPAEEERSGRSETLRRGT AAGRMATVVVEATE\PEPSGSI ANPAASTSPSLSHRFLDSKFYLL VVVVGEIVTEEHLRRAIGSIELGI RSWDTNLIENL\DQELKLFVSR HSARFSPEVPGQKIL\HHRSERF *ETV\VLIQ\PFLMEGSSGTEVRL MITDAARHKLLVLTGQCFENT GELILQSGSFSFQNFIEIFTDQEI GELLSTTHPANKASLTLCPEE
16628	46996	A	16728	101	365	VITGQPNPTNPNLQATPDIQGT ARLGA/LHPRGIIPFIGHQSA/R PHAPAPANPNKRTLFRPPPLSP SPEPPGSGQGAGLGARPALP

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16629	46997	A	16729	1170	2847	VASC*ENACKQNQRQKPCDYL NRCRKGLWQNSTTLHAKNSQ* TVLYKTIKFQLEKTTLKFIWNQ KRAHIAKSILSQKNKAVGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNHLIF DKPDKNKKWGKDSL FNKWCW QNWLAICRKLKLD PFLTPYTKI NSRWIKDLHVRPKTIKTLEENL GNTIQDIGTGKDFMSKTPKAM ATKDKIDKWDLIKLKSFACTAKE TTIRVNRQPTKWEKIFTT
16630	46998	A	16730	79	536	
16631	46999	A	16731	232	771	
16632	47000	A	16732	3	339	
16633	47001	A	16733	279	416	
16634	47002	A	16734	1	1760	
16635	47003	A	16735	309	1718	
16636	47004	A	16736	10	417	IAIMNDTVAIRTRKFMTNRLLE RKQMVIDVLHPGKATVPKTEIL EKLAQMYKTTDPVIFVFGFRTH CGGGKTTGFGMIYDSL DYA EK NEPKHRLARHGLYEKKKTS*K QRQERTNRMKKVRGTAKANV VAG*KPNE
16637	47005	A	16737	96	609	EKFMTNRLTSGETKWVI*CPFT PGRRTVP*AQKIR\EKLAQNVQ RPHPDVIFVFGFRTHFGGGKTT GFGMIYDSL\DYAKEKMNP KH RLA\RHGPGMEEGKRPSKKN GKER\KNQN*RK VQGG LAKGP LLGAGQKEEMKCLGSELEIGSQ PKELKVLPMMLAVATVDFSQE
16638	47006	B	16738	1	1041	
16639	47007	A	16739	3	447	VSVPFIFIWLTCKSFLKFDLKS TNVLQSL/GKFQSEVSKRQKLA TVFSSFTSTGLCQGSVAFISRC PLASGSDSVWRGGSVFFSFRP* RLMISLLGSCVSHQFPEKLEF** KKMPYKIPTAHHQQDDQQRG HEHKQSQPDVPHLG
16640	47008	A	16740	1	2385	
16641	47009	A	16741	1	639	
16642	47010	A	16742	1	993	
16643	47011	A	16743	127	426	CTDKITLVFGV*MLTPKPKD/CD DSAV*ELLWLTNQLSACVVHP GLYHLHVRISIWIPIYRCLFSTMC GVCQTCTVAMQLDCLADSFNA VFKLTEAAGHMAR

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16644	47012	A	16744	3	374	SLRLQFYKISFQTQDQANKLS DSDASHLHPLAPCSEPTRTNVH TKLPRERPQSQIASPYPLPPCPE RLKKQTNKKKNW*EPSPHILPP RNAAAHTGQSRASKSLPAPPPT VSPRPRPGAGT
16645	47013	A	16745	16	253	
16646	47014	A	16746	163	588	TFHAVLHIENAGYFNSIPFFRIL NHNPLTTVEDPYLFLKLPALKYL *VL*YSHESRDDLYSF*IFHQRL SILHLG*NVIK*LSY*KKVIGE EKN*EDV*WSRQPAGEREQC*R THIDLE/PCRHMEEYYLTKKAK GKRCSLF
16647	47015	A	16747	2	363	GTSQTLRLSLASACIFQPKVRL SREEIPLNLNY*SVSPNSNP NHL YSRHTILTAMLTQLGTCVLLPI GLLVYPYPCPSPTGLQVTPFLPS PCGSGWPASFTYSSNRFTTNLL FCVFIL
16648	47016	A	16748	1028	1621	
16649	47017	A	16750	1	112	LGNTWG*QPCKRLKIWLSLEFT KINVIRHMWKKFKRL
16650	47018	A	16751	91	597	LKNRRRSRPSIRQSIGSTSVSRW LTSLFYLDHTADVQ*V*REFIP LKPRQ*ED*MFQSWLHAWGDT LEEAFEQCAMAMFGYMTDTGT VEPLQTVEVETQGDDLQSLLFH FLDEWLYKFSADFFIPGWGEE FSLSKHPQGTEVKAITYSAMQV YNEENPEVFVIIDI
16651	47019	A	16752	226	668	IYFFRLHAWGDTLEEAFEQCA MA\MFGYMTDTGTVEPLQTSRS \KTQGDDLQSLLFHFLDEWLYK FSADEFFIPREVKVLSIDQRNFK LRFN\GWGEEFSLSKHPQGTEV KAITYSAMQVYNEENPGSFC DHWTFKTTQKIKRLPTGKK
16652	47020	A	16753	3	942	
16653	47021	A	16754	3	419	SLYHNSSQKRHWTFSSSEQLAR LRADANRKFRCKAVANGKVLP NDPVFLEPHEEMTLCKYYEKRL LEFCSVFKPAMPRSVVLTCAFL ACKVDEFNVSNPQFVGNLRESP LGQEKALEQILEYELLLIQQLNF HLIVHN
16654	47022	A	16755	312	537	
16655	47023	B	16756	209	1381	
16656	47024	A	16757	1	927	
16657	47025	A	16758	1	3987	
16658	47026	A	16759	2	175	

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16659	47027	A	16760	2395	2700	
16660	47028	A	16761	2	1118	
16661	47029	A	16762	26	1205	
16662	47030	A	16763	1	1594	
16663	47031	A	16764	1	595	
16664	47032	A	16765	1	1029	
16665	47033	A	16766	1172	1364	
16666	47034	A	16767	253	389	
16667	47035	A	16768	489	855	
16668	47036	A	16769	2	401	
16669	47037	A	16770	415	694	EAKLHLNLCDSMWLCCPTKGK RKQALEVLNIGPFLAPFWIAK SYFFTSPKTQVSSL*FLRYKRIK LQCRPKTCTNPSRTRSCALPGR FIPPF
16670	47038	A	16771	1	765	
16671	47039	B	16772	1	1095	
16672	47040	A	16773	82	311	KANSDVFPFGFVNLEHLMEAC NS/GTNLLNSKRLNNDICLASH TDVSHARKCCLVVSCLLLRGL SILRSKESHC
16673	47041	A	16774	2	683	
16674	47042	A	16775	1	2703	
16675	47043	A	16776	1	555	DHNSSPAREQ/SSMENKFHELT EVGFRKITSLEKNINDLMELKN TARELREAYTSIKSRIDQAKESI SEIEDQLNEIKCEDKVREKRMK SNKQNFQEIWDYVKRPNLRLT GVPESDRENGTKLENTLQEIIQE NFPNLARQANIQIEIQRQAQR QSSSRATPIHIIVRFAKFEIKEKM LRAAREK
16676	47044	A	16777	1	839	
16677	47045	A	16778	1	504	
16678	47046	A	16779	1	2367	
16679	47047	A	16780	1	1566	
16680	47048	A	16781	146	464	VTGWTNYEGNGRWRERSRQLC GCCSRKSSSSWGISLMKGS GAP LRPGRMMWSGFRKCSDTQVM YS*R*LLETMTLASIMR*THTK* NALRKCSALKDCFLGKALTL
16681	47049	A	16782	1	1782	
16682	47050	B	16783	221	1075	
16683	47051	A	16784	1	627	
16684	47052	A	16785	1	1539	

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16685	47053	A	16786	1	1318	LSPVLSLSPDSMSFTTRSTFSTN YRSLGSVQAPSYGARPVSSAAS VYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRSLASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNARIVLQIDNARLAAD DFRVKYETELAMRQSVENDIH GLRKVIDDTNITRLQLETEIEAL KEELALFMKKNHEE\EVKGLQA QIASS\GLTVEV\DA\PKF\QDLRQ DSWADIR\AQY\DELARKEPRG A*TKYWFSADLRESTTVVTTQ FAEV\GAA*DDASQSWRTYSPS SLGDPTWGFWRKS*RASLEN SLREG*RPAYALT/QMEQASTGI LACTFESELGTDPGAEGQRQAQ EY\EALLNIKVKLEAE\ATYRRL \LEDGEDFNLGDALDSSNSMQT IQKTTTRRIVDGKVVSETNDTK
16686	47054	A	16787	1	253	RVRTLKTSTSTCLYWFENKDS/ DHPERSSP*YMSPSHRYGSLVK ASITKPAFLKTSGRLFTCSSQFC PLISKISDGFSLPFPST
16687	47055	A	16788	1	276	AAAAGPPGPLVMFTYRERVSG LRSVHILRASHTDARLRQEEPT ERLQFHSSGLLIRFSRETEPIGV YIKED*EEWAYKMMVFAKSHD LPFAN
16688	47056	A	16789	1	203	LLHTSTKNELWQ*GKRDPLIVF YTQYLF*EKTTRK*NQRQAGSL ALGPKPGLRLPGLNPVVENQFI
16689	47057	A	16790	8	361	RGLDGQGGRDGSSSGGGGGGR RRRCLLLAPAPAVIRASGRGP R*DCWRAGCA*AWRPC/RLAR RMWTLRSLPLTRSLYVNMTSGP GGPAAAAGGRKENHQVARKR LNVCFTRSVSETA
16690	47058	A	16791	674	1076	VQLFRSAGSRDHHRFLGRGRN KQTKTLYPTPIPCSLKYQRKQN GSLWTSRMPSSVFPCTLTSPFS LPLRISQTTHPNLRGPSCPKGLG IALISLVRHWLKI*ATSQVQAL WSFSMWMIYFWLPVQKPHASR
16691	47059	B	16792	296	1470	
16692	47060	A	16793	1	334	
16693	47061	A	16794	718	2541	
16694	47062	A	16795	2	406	
16695	47063	A	16796	74	464	
16696	47064	A	16797	159	610	
16697	47065	A	16798	1	273	

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16698	47066	A	16799	1	543	
16699	47067	B	16800	1	873	
16700	47068	A	16801	1	558	
16701	47069	A	16802	27	136	
16702	47070	A	16803	89	363	
16703	47071	A	16804	579	994	
16704	47072	A	16805	129	362	PKIIQPRRATTRFTSIHGWRI CPS IPCFPEATINRRRCVKVDSVTCH LLTQR*YKSSKVQERC*SCRIQG QKISDCY
16705	47073	A	16806	878	1811	
16706	47074	A	16807	1	843	
16707	47075	C	16808	19	231	
16708	47076	A	16809	1	1650	
16709	47077	A	16810	3	404	
16710	47078	A	16811	279	428	
16711	47079	A	16812	3	507	
16712	47080	A	16813	1	1128	
16713	47081	B	16814	1	567	
16714	47082	A	16815	3	1206	GSEGQGAGPGGAAATAAAME DEMPKTLVVGNLSDVTEALIL QLFSQIGPCKNCKMIMDTAGN DPYCFVEFHEHRHAAAALAAM NGRKIMGKEVKVNWATTPSSQ KKDTSNHFHVFVGDLSPQITTE DIKAAFAPFGRISDARVVKDMA TGKSKGYGFVSFFNKWDAENA IQQMGGQWLGGQRIRTNWATR KPPAPKSTYESNTKQLSYDEVV NQSSPSNCTVYCGGVTSGLTEQ LMRQTFSPFG\QIMEIRVFPDKG Y\SFVRFNS/HMESGRHMAIVSV NGTTIEGHVVKCYWGKETLAD MINPV\QQQNQIGYPQPYGQWG Q\WYGNAQQIGQYMPNGWQV PAYGMYGQAW/SSQGFNSDT VFLAPWDGDPNFGSCNRLQGG NG\SLLPN\RPSGYRVAGYETQ
16715	47083	A	16816	1425	1564	
16716	47084	C	16817	151	339	
16717	47085	A	16818	67	373	FCDCHHFILMFKSPHIWPGIFS SWLLCFFWACLHHSLSIALLS TKRYSGLILYFLCSSFEITVSSKS SVSF*RRMVFRNQVLGSRACACC C*GVAAPRPFP

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16718	47086	A	16819	1	799	MGPHWLWLHLALVLLPPSALL LPSCEKGVLRVRFYHEKWIYV HKESTKERHGYCTLGEAFNRL DFSSAIQDIRRFNYVVKPLLPRY KFQRLNAITKDRQRSSSGVQLP HAGQPQGADPTQDERRQVAGD TPGDPRALAGGGVVDRTYPGS YEASGRPGLQLALAIEDLLRDS AIGCTFCDRCRPVGAQRLLAHS LALAAPGAEKREVVKLLLVAY VRRRPGKNLTTQNCQPAAGYI PPGHQ*AASAHARSWKNQQPP PRVLIGSA
16719	47087	B	16820	28	438	
16720	47088	A	16821	366	793	AWVEQSKVLIKEGGIQLLLTIV DTPGFGDAVDNSNCWQPGINYI DSKFEDYLNESQVNRQMPG NRVHCCLYFIAPSGHGPLHN*R LPPSGRIG*YMFVTTWHCLLLR LKPLDIEFTKHLHEKVNIPLIAK ADTLMPEEC
16721	47089	C	16822	228	374	
16722	47090	A	16823	291	604	AWELEKSHLRRGLDPSHNINIR VEPKF*SKYGGVQLLLTIVDTP RFGDAVDNSNCWQPVINYIDIK FEDYLNESRVNRQMPGNRV Q**LYFIAPSGHGPLHN
16723	47091	A	16824	148	498	
16724	47092	A	16825	1	595	DRPRITGGGKSGTEYPENLPTL KATIENKNSVLNTATKMKDVQ TSTPAEQDLEMA\SEGEQKRLE EYENNQPQVKM\QIHSRDDLDD IIQSSQTVSEDG\SLCCNCKNVI LLIDQHEMKCKDCVHLLKIKNT FCLWKRLLIKLDNHCEQLRVKI RKLKNKASVLQKRRISEKEEIKS QLKHEILELEKELCSLRFAIQQE
16725	47093	A	16826	1	828	
16726	47094	A	16827	1	540	
16727	47095	A	16828	295	460	
16728	47096	A	16829	2	1355	
16729	47097	A	16830	650	1184	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16730	47098	A	16831	725	2368	AVDIIKEIKHPQKHKKLPAFQLR PFPLREETIPCNGVSFPRCEPPCL AEVYMCLNEMLKDEKKGCMN KSGAGENPQERTAQKRKFPSP HSSNGHSPQDTSTSPIKKKKP GLLNSNNKEQVKQPLECIETQS KAMTMLTIEQLSYLLKFAlQKM KQPGVRRKLKVPLEQHPDYA EYIFHPMDLCTLEKVGLRQMY GCTEAFLADAKWILHNCHYNG GEWLRTQIAKVVIKICEHEVCV SQVCPECYLAACQKRDNWFCE PCVSWIYD\SACQPV*WKLVIQ MFLPM/WKADIL/RGEEG*YTSE LIGWL*SLSCDCSAGTSISHPSD SD*RWLTEHEGRRVSWPVNNC YLMSKEIPFSVKKTKSIFNSAM QEMEVYVENIRRKFGVFNYSPF RTPYTPNSQYQMLLDPTNPSAG TAKIDKQEKVKLNFDMTASPKI LMSKPVLSGGTGRRISLSDMPR SPMSTNSSVHTGSDVEQDAEK KATSSHFSASEESMDFLDKSTG QLRAGERGGGPLDTGVSHGCT LGGPKQVSIKQQASVLQDTMN
16731	47099	A	16832	2	164	PSTLRAEA WPP*NGSPVPLASS QASSRSRGPTSCIPRYPVASPSE RLPLPTAAA
16732	47100	A	16833	51	498	
16733	47101	A	16834	1	531	
16734	47102	C	16835	257	358	
16735	47103	A	16836	63	193	SGRLAPHTSRRTSANCSDDAKS SDSCSPSRKT*WGRNTNRIH
16736	47104	A	16837	1	834	
16737	47105	A	16838	258	545	CQNPQILASPSTKDLMLGRNT NKDTLKA CLARVVKRRSECSQ KPAS*MCTERNPTSMREVHDL RKYAVLYQPLFD*AVLKLLMQ FMNLRKEGM
16738	47106	A	16839	66	476	
16739	47107	A	16840	1	1362	
16740	47108	A	16841	1	747	
16741	47109	A	16842	522	687	
16742	47110	A	16843	112	861	
16743	47111	A	16844	87	472	TVTFSQCRFGKMLPLEKAFASP QELPSPAGSAHAGVSSRSSSRK NPRPSLRGPLLTLEFSRLRFREF VYPEAAGPHHTLARLDEL CRQ WLMPEARSKEQMLELLVLEQF L/SILPDKVRPVVVAQYPES
16744	47112	A	16845	1	393	

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16745	47113	A	16846	621	1099	
16746	47114	A	16847	1	453	
16747	47115	A	16848	209	1175	
16748	47116	A	16849	1	546	
16749	47117	A	16850	187	421	LGESSQ*GSPAPPPTGGCGPATG Q*PLGQSFQRKELAAIFAVSQY SLVVPPGMGETEATGIWSRPPA NGNSPTVEWHIK
16750	47118	A	16851	3	1654	
16751	47119	A	16852	166	465	
16752	47120	A	16853	1	558	
16753	47121	A	16854	51	380	RNNLLLLTHHFVLIQFLIPRKET KYYLVITPYSLSINVLNFFYYSS PESLNDTNCYHHEEADTPWR*F LAIFEGLFNIAHQMQNMPFFLL WKQVPETLVIQQQLPRIN
16754	47122	A	16855	3	550	
16755	47123	A	16856	1	462	
16756	47124	B	16857	1	2811	
16757	47125	A	16858	3	514	ASGTAPEIQARPTRPRRKRRRK LLPL/TKAEAKAKALKAKKAVL KGVHSHKKKKIRTSPTRRPKT LRLRRQPKYPRKSAPRRNKLDH YAIKFPLTTESAMKKIEDNNTL VFIVDVKANKHQIKQAVKKLY DIDVAKVNTLIRPDGEKKAYVR LAPDYDALDVANKIGII
16758	47126	A	16859	73	396	FFQFSPKKNCSVWWNC\AEVLL KYKTGETNDFELLKNQLLDPDI KRLPWLNRSTVVEEYLAFLG NLVSAQTVFLRPCLSMIAHFV PPRVIIKEGDVDVSDSDEDD
16759	47127	A	16860	132	357	YVSKFAGRLSSSSSESETSTSPS LMITRGGTKWGSNHAETRSEE NSLC*YKITKKSQILFHYCFDFY STKAISI
16760	47128	A	16861	380	597	
16761	47129	A	16862	179	280	QRDIKSCVQILQWEGSTRPFTN E**YMANVRNS
16762	47130	A	16863	2	175	
16763	47131	A	16864	178	374	
16764	47132	A	16865	386	2120	
16765	47133	A	16866	887	1104	

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16766	47134	A	16867	1	708	MEVAALEHLDHRLREKVKQQN ALRHQVVLRQRRLEELQLQHS LRLLEMAEAQNRHTEVAKTMR NLENRLEKAQMKAEAEHITS VYLQLKAYLMDESLNLENRLD SMEAEVVRTKHELEALHVVNQ EALNARDIAKNQLQYLEETLVR ERKKRERYISECKKRAEEKKLE NE/LHGAQADPGSDLNPRADPP RAPAATVRRHHPGQPACQGGG AAAALAHVPDGGDLWQQQGR HWH
16767	47135	A	16868	1	1327	
16768	47136	A	16869	1	1776	
16769	47137	A	16870	1	397	
16770	47138	A	16871	1	1974	
16771	47139	A	16872	1	336	
16772	47140	A	16873	3	661	GRGGHNFAPNLTARSAVTSG GGPPAAVMVGS LNCIVAVSQN MGIGKNGDLPWPPLRNEFRYF QRM TTTSSVEGKQNLVIMG\KK TWFSIPE/RRNRPFKG*EFNLVL SRELQGNLPQGAHFLSRSLDDA LKLTEQPELANKVGMVWIVG GSS\YKESMNHSSSLKLFVTRII QDFESDTFFPEIDLEKYKFLPEY PGVFFDVQEEKGIKYKFEVHEK
16773	47141	A	16874	38	755	ALKTCSVNQPDADNIAGSSGH LRTLSPVVSRSCLKEEERRRRR RMKRRQRSRRRRSRRRRMRMR RRSRRRRRMKRRKRRRRMKR RSSFILMYFFMLLLSGIPLLYME VIMGQWLHVDNIRVWKQLVP WLCSMSY/SSQSVCASVSLYNS TIISWNFFYSFAHPLPWDHCPLV KNISVTDWAHQYFLYHTTLHA SDHSEEAAEALVPNRSLGCLLG RDHRDLDFKPEIRRGAAHTGGAR
16774	47142	A	16875	1	1830	
16775	47143	A	16876	2	1142	
16776	47144	A	16877	1	435	
16777	47145	A	16878	1	963	
16778	47146	B	16879	247	1092	
16779	47147	A	16880	1	1653	
16780	47148	A	16881	1	2268	
16781	47149	A	16882	301	555	
16782	47150	A	16883	1	630	
16783	47151	A	16884	731	834	
16784	47152	A	16885	1	2277	
16785	47153	A	16886	45	2446	
16786	47154	B	16887	625	696	

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16787	47155	A	16888	193	315	WPGGGYSLLCFWCPLSFAGAA G/W*PPPGHH*PYSPKQEHYRT NSDTLIFLSSRTLVLQGS*GIKV AGSEGPKYNE*PRNPVLP SLCL HLFGC
16788	47156	A	16889	1	588	
16789	47157	A	16890	2	229	
16790	47158	A	16891	1	502	
16791	47159	A	16892	516	576	
16792	47160	A	16893	144	435	
16793	47161	C	16894	1	996	
16794	47162	A	16895	424	632	
16795	47163	B	16896	446	1944	
16796	47164	C	16897	207	470	
16797	47165	A	16898	1	396	
16798	47166	A	16902	1	585	
16799	47167	A	16903	141	906	
16800	47168	B	16904	99	276	
16801	47169	A	16905	1	756	
16802	47170	A	16906	1	383	
16803	47171	A	16907	1	582	
16804	47172	A	16908	3	615	PECIIGIDILSSGQNPHIGSLTGR VRAIMVGKAKRKPLELPLPRKI LNQKQYRIAGGIEEISATIKDLK DAGVVIPTTSLFDSPIWPVQKT DGSWRMTVDYRQINQVATPIA AAIPDVASLLKQINTSPDTW/PI RPPISNGD*GVSGR*ACCLEPLA GPHR*ITSEASRILEQGAIFCR* LLSF*ETALGLLLGFGGN*TFDY
16805	47173	A	16909	3	415	PVK/VGA*GGQVINGVLAQV*L TVGPVGPRTHPVVIFPVPECRIG RDILSSWQNPHGTSLTGRVRAF MVGKAKWKP*ELPLPRKTVNQ KQYRIPGGIAEIS/A/TIKNLRRG VVIPTTSRFNSPIWPVQKTDGS W*TAADY
16806	47174	A	16910	232	633	
16807	47175	A	16911	1	1677	
16808	47176	A	16912	328	381	LLKLQH*MQSPYLVGPSQ
16809	47177	A	16913	3	811	
16810	47178	A	16914	1	1125	
16811	47179	A	16915	1	1191	
16812	47180	A	16916	113	485	
16813	47181	A	16917	1	357	
16814	47182	A	16918	12	398	
16815	47183	A	16919	498	595	TEMASTTTCT/RFHDEYQLFEEL *KGAFSVNGT
16816	47184	A	16920	5	367	

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16817	47185	A	16921	190	2005	VLYPLHLGTGTGKGAGGASSG EEGSEARRRRRIGGLWGRRPHA TLSGHLPSRPAPAHTPSRASYFR TRKVRAALGDSAAGVPVGLAA RLLASGPSRSQPGHSPGPEMAS TTTCTRFTDEYQLFEE\LRGAF SVVRRCKMKTGQGYAAKIINT KKLSARDHQKLREARICRLK HPNIVRLHDSISEEGFHYLVFDL VTGGELFEDIVAREYYSEADAS HCIQQILES\VNCHLNGIVHRD LKPENLLLASKSKGA\VKLADF GLAIEVQGDQQA\WFGFAGTPG YLSPEVLRKDPYGKPVDMWAC GVILYILLVGYPFWDEDQHRL YQQIKAGAYDFPSPEWDTVTPE AKDLINKMLTINPAKRITASEAL KHPWICQRSTVASMMHRQETV DCLKKFNARRKLKGAILTTML ATRNFSAAKSLKPKPDGVKEST ESSNTTIED\EDVKARKQEIIKVT EQLIEAINNGDFEAYTKICDPGL TAFEPEALGNLVEGMD\HFRFYF ENALSKSNKPIHTIILNPHVHLV GDDAACIA\YIRLTQYMDGSGM PKTMQSEETRV\WHRRDGKWQ NVHFHRSGSPTVPIKPPCIPNGK ENFSGGTS\SLWQNI
16818	47186	A	16922	1	288	
16819	47187	A	16923	318	458	
16820	47188	A	16924	1	578	
16821	47189	A	16925	803	1068	
16822	47190	A	16926	1	660	
16823	47191	A	16927	2	325	TSEN\NNGPKR*IHSTESLYLLQ GSVVADHDYIGLPEIPIGAYQA NILVEDATIGIVDNELLTSSKDR ELLE\YRNTKISPLIDHSSLEKQ TFSLLDSSN\QVLEYLS
16824	47192	A	16928	156	573	
16825	47193	A	16929	405	599	GLEPPQKPGLVTSILQANPVPLP CGNSQSR*TSTRCWYEH\LQCTQ SHLQM\QYHEAYQSACALA
16826	47194	B	16930	1	1676	
16827	47195	A	16931	1	1125	
16828	47196	A	16932	27	818	
16829	47197	A	16933	1	4986	
16830	47198	A	16934	1	4401	
16831	47199	A	16935	153	370	SVLETCMSTAFPVSCHSSFKTA VLRISLS*ISAQGGPIDLFSQCHP SSSTGVSS\NHRGSWDTPGQSL VVICL

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16832	47200	B	16936	47	501	
16833	47201	A	16937	49	1714	
16834	47202	A	16938	1	999	
16835	47203	A	16939	140	2029	FAARAGPGGSRRARRGNKWAR MPYEIKKVFASLPQVERGVSKII GGDPKGNNFLYTNGKCVILRNI DNPALADIYTEHAHQVVVAKY APSGFYIASGDVSGKLRIWDTT QKEHLLKYEYQPFAGKIKDIAW TEDSKRIAVVGEGREKFGAVFL WDSGSSVGEITGHNKVINSVDI KQSRPYRLATGSDDNCAAFFEG PPFKFKFTIGDHSRNVNCRVRFSP DGNRFATASADGQIYIDGKTG EKVCALGGSKAHDGGIY AISWS PDSTHLLSASGDKTSKIWDVSV NSVVSTFPMGSTVLDQQLGCL WQKDHLISVLSGYINYLDNRN NPSKPLHVIKGHSKSIQCLTVH KNGGKSYIYSGSHDGHINYWD SETGENDSFAGKGHTNQVSRM TVDESGQLISCSMDDTVRYTSL MLRDYSGQGVVK\LD\VQPKC\ VAVGPGGYAVVVCIGQIVLLK DQRKCFSI\DNPGYEPEVVAHV PGG\DTVAIGGVDGNVALYSIL GTTL\KDEGKLLLEAKGPVTDVA YSH\DGAF\AVCDASKVVTVFS VADGYSENNVFYGHAKIVCL AWSPDNEHFASGGMDMMVYV WTLSDPETRVKIQDAHRLHHVS SLAWLDEHTLVTTSHDASVKE
16836	47204	A	16940	31	449	
16837	47205	A	16941	1	53	
16838	47206	A	16942	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VSW SITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTTGKSPQLQQDYFP RRSYRCSHRLIICLN VIGNAL
16839	47207	A	16943	1	438	
16840	47208	B	16944	1	1267	
16841	47209	A	16945	635	808	

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16842	47210	A	16946	37	1319	QGEHGHRGLHGFLGRPESQIPS WSRSAPLHRLEIWGALAPSLAD HSEGSPEVSVINTVDTSHYMI YDAQMDYYGHPGQPASSDRS VKIF*CAQWEGRSLFADLQGS WRGPVWQVGWGFTPLLRATS WAFVASLLTGKFIYSWERGKT GTLGRRATSNAGTRLLKLNFGC CWAPHGLTVLHSWACWVVS RGPSLLDFTPGEGQWEVKKIN NAHTIGCNAVITWAPACCTWK PHRRPHRGQKPNYIKRFASGGC NDNLKLVKEEEDGQWKEEQK LE\GHSDW\RDVAWAPSIGPA HQHHRPAAPRMGRVSIWTCDD ASSNTWSP*IVDKFNDVVWHV S\WSITANILAVL\CGDNK\PL WKES*WAKWVVPSSDVKQRG PGLPYQPSSDQEGPARNEQVNK DQGGALAPPPAQLPGPAPSPGP
16843	47211	A	16947	1	1021	MSGFIDHSHIARIYPIGFGTDA GSCIDQRGITGKLQPPEDRRL GEGKLTNTKDIHTKTPSVRHHH QRPKVDKTTKIGKKQSRKTGNS KNQSAPPPKECSSSPAMEQSW TENDFDELREEGFRRSNYSELK EEFRTHGKEVKNLKRLDEWL TRITNAEKSLKDLMEKTKARG LQRVSVMEDEMNMKQEEKFR EKRIKRNKQSLQEIWVYVCRPN LRLIGVPESDGENGTLENTLQ DIIQESFPNLRQANIQIEIQR MPQRDSLRRATPRHIVRFTKV EMKEKMLRAAREKA\HIALIPK LTT*LEVKLSSANVKEQKL*QT VFQTTVQSN
16844	47212	A	16948	1	393	
16845	47213	A	16949	1	2631	
16846	47214	A	16950	1	1155	
16847	47215	A	16951	1	1185	
16848	47216	A	16952	1	942	
16849	47217	A	16953	1	615	

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16850	47218	A	16954	474	2678	IKPQRWGGKKQSRKTGNSKNQS ASPPPKERSSSPAMEQSWTEND FDELREDSFRRLVITNYSELKEE VRTNGKEVKNLEKKLDEWLTR ITNAEKSLKDLMEKLTMAQELP DQCTSLSSRCDQLEERVSVMED EMNEMKCEEKFREKRIKRNEQ SLQEIWHYVKRPNRLIGVPES DGENGTKLENTLQDIIQENFPN LARQANIQEIQRMPQRYSSR RATPRHIIVRFTKVEMKEKMLR VAREKGQVTHKGKPIRLTADL LAETLQARREWGPIFNILKEKN FQPRISYPAKLSFIDRSTRQKVN KDTQELNSALHQADLIDIYRTL HPKSTEYTFFSAPHHTYSKIDHI VGSKALLSKCKRTEITNCLSDH SAIKLELRIKKLTRNHSTTWKL NNLLNDYWVHNEMKAEIKM FFETNENKDKTYQNLWDTFKT VCRGKFIALNAHKRKQERSKID TLTSQLKGLEKQEQTTHSKASRR QEITKIRAEKERVGRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWWPDLHIHAEDTLLPFYLGE KDDVTYAIPKTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS
16851	47219	A	16955	1	675	
16852	47220	A	16956	1	1032	
16853	47221	A	16957	3	978	HEAKHQMADDAGGSGGGPKA LVGPGMG\NPVAFRRGF\GIVIR GPGSRPGGRGRGR\GRGARGSK \AEDKDW\MPVTCLG/RALVKD H*RSKF PWKEIYLFSLPH*RNQR IIDF\FLGGLLSKDEGFE*LCPVQ EQDPCPASRTQASRPFAIGGL QMAHVGLGC*VLPRKVATGHP VGAILAKLS\VPVRR\GYLGK VLAKP\HTVP\CKV\TGRCGSVL VRLIPAP\RGLGMVSAPVA\KKL LMMAGIDDCYTSARG\CTATL GQIWPRATL*LPFLRTYKLP*PP DLWKGRLYLPSFPIKEFTDHLV KDPHPRESSVQDSELQLVATT
16854	47222	B	16958	124	274	

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16855	47223	A	16959	202	2264	KWPKMNPQQQRMAAIGTDKE LSDLLDFSAMFSPPVNSGKTRP TTLGSSQFSGSGIDERGIGTTSW GTSGQPSPSYDSSRGFTDSPHY SDHLNDSRLGAHEGLSPTPFMN SNLMGKTSESGFSLSYRDTGL PGCQSSLLRQDLGLGSPAQLSS SGKPGTAYYSFSATSSRRRPLH DSAALDPLQAKKVRKVPPGLPS SVYAPSPNSDDFNRESPSYSPK PPTSMFASTFFMQDGTHNSSDL WSSSNGMSQPGFGGILGTSTSH MSQSSSYGNLHSHDRLSYPPHS VSPTDINTSLPPMSSFHRGSTSS SPYVAASHTPPINGSDSILGTRG NAAGSSQTGDALGKALASIYSP DHTSSSFSPNPSTPVGSPSPLTG TSQWPRPGGQAPSSPSYENSLH SLQSRMEDRLDRLDDAIHVLRN HAVGPSTSLPAGHSDIHSLLGPS HNAPIGSLNSNYGGSSLVASSR SASMVGTHREDSVSLNGNHSV LSSTVTTSSDNLNHTQENYRG GLQSQSGTVVTTEIKTENKEKD ENLHEPPSSDDMKSDDESSQKD IKVSSRGRTSSTNEDEDLNPEQ KIEREKERRMANNARERLRVR DINEAFKELGRMCQLHLKSEKP QTKLLILHQAVAVILSLEQQVR ERNLNPKAACLKRREEEKVSA VSAEPPTTLPGTHPGLSETTNP
16856	47224	A	16960	1190	1327	
16857	47225	A	16961	386	554	ATISFRYSQCK*AEQGCDSELG LFTKIRKSGYWG*ATISFRYSQ CKALEIHLTAPVVPSALRIWGF QIPGFNQLSFHPSPEKGSFLPC
16858	47226	B	16962	499	915	
16859	47227	A	16963	1	1785	
16860	47228	A	16964	1	3036	
16861	47229	A	16965	2	710	
16862	47230	A	16966	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGHLHLKIVVL
16863	47231	A	16967	1	1335	
16864	47232	A	16968	83	426	
16865	47233	A	16969	93	345	APALCLQILLDCSVRNRTSRF RPREVGIIQYKKGGAAGKGG TGNAPGFLFSKDS*KDPTPLPP PLLL*GQRDH*QLHQE
16866	47234	A	16970	1	1302	
16867	47235	A	16971	1	1174	
16868	47236	A	16972	274	1428	

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16869	47237	A	16973	411	629	HCLSHFQNTGPRGDVDFQQEL FPVLMADIRKEERSHLCRSSRR TWTILDKS*IQGSRLSSKEQGW GWGTSRK
16870	47238	A	16974	618	1552	
16871	47239	A	16975	1	558	
16872	47240	A	16976	1	765	
16873	47241	A	16977	2	418	
16874	47242	A	16978	130	1965	
16875	47243	A	16979	1	1062	
16876	47244	A	16980	1	558	
16877	47245	A	16981	37	676	
16878	47246	A	16982	1	1014	
16879	47247	A	16983	1	2964	
16880	47248	B	16984	259	1751	
16881	47249	A	16985	1	987	
16882	47250	A	16986	1	1047	
16883	47251	A	16987	3	1413	GLHAARGPWVVQAWISITMER KEVCYQQLGCFSDKPWAGTL QRPVKLLPWSPEDIDTRFLLYT NENPNNFQLITGTEPDTIEASNF QLDRKTRFIIHGFLDKAEDSWP SDMCKKMFEVEKVNICVDWR HGSRAMYTQAVQNIRVVGAE AFLIQALSVKPCLG PVLWVGVR EGQGDAARGTALEDVHVIAHS LGAHT/AAEAGRSWGPRGRITD DLGTA*YKVDGMG*ERRGVRF SI*P*GGGV*AGFGGERFR*RKN VGKSTAGWRMGLDPAGPCFQ DEPEEVRLDPSDAVFVDVIHTD SSPIVPSLGF GMSQKVGHLDFFP NGGKEMPGCKKNVLSTITDIDG IWEIGIGFVSCNHLRSFEYYSSS VLNPDGFLGYPCASYDEFQESK CFPCPAEGCPKMGHYADQFKG KTSAVEQTFFLNTGESGNFTSW RYKVSVTLSGKEKVNGYIRIAL YGSNENSKQYEIFK
16884	47252	B	16988	95	315	
16885	47253	C	16989	1	780	

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16886	47254	A	16990	2	1426	SGTLDRMLIFWTITLFLGAAK GKEVCYEDLGCFSDETPWGGT AIRPLKILPWSPEKIGTRFLLYT NENPNNFQILLSDPSTIEASNF QMDRKTRFIIHGFIDKGDSEWV TDMCKKLFEVEEVNCIFV\DWK KGSQATYTTQAANNVRVGAQ VAQMLDILLTEYSYPPSKVHLI GHSLGAHVAGEAGSKTPGLSK/ RLQGLDPVEASFESTPEEVR\AD PSDADFVDVIHTDAAPLIPFLGF GTNQQMGLHLDFFPNGGESMPG CKKNALSQIVDLDDGIWAGTRDF VACNHLRSYKYYLESLNPDGF AAYPCTSYKSFESDKCFPCPDQ GCPQMGRHYADKFAGRTSEEQQ KFFLNTGEASNFARWRYGVISIT LSGRTATGQIKVALFGNKGNTN QYSIFRGILKPGSTHSYEFDAKL DVGITIEKVKFLWNNNVINPTLP KVGATKITVQKGEEKTVYNFCS EDTVREDTLLTLTPC
16887	47255	A	16991	1	1407	
16888	47256	A	16992	954	1663	EPSPDPAHAPSVALLHTGNQSK VLPWPRNPCMKRW*K*KMLKI SWVHEWVTSNWISTA VRSLRV FAPKNVFQ**ALGPSGLVVC
16889	47257	A	16993	3	242	
16890	47258	A	16994	1	1815	
16891	47259	A	16995	1	375	
16892	47260	A	16996	3	2005	
16893	47261	A	16997	1	651	
16894	47262	A	16998	114	275	
16895	47263	A	16999	1	270	
16896	47264	A	17000	140	876	PPALVVGRRQKSWRMFEQMRA NVGKLLKGIDR\YNPENLATLE R\YVETQAKENAYDLEPNLAVP ESCTKFNP\AFFQTNGSTAQDSC *KALTNLPH\TDFTL\CKCMIRP GHIQ\ERPIPTDFCYLGGPGWE TWPFSRAFWEPSGMKTVDLLW KV*LG\FEDSV\RKFI\CHVVG\IT YQHIDR\WLLAEMLGDLFGQAS *RCWMSKYGWSA\DESGQIFIC SPRREHLTPRNIVEKIDFDSVSSI MASSQ

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16897	47265	A	17001	1	777	MSGENVTKVSTFILVGLPTAPG LQYLLFLLFLLTYLFVLVENLAI ILIVWSSTSLHRPMYYFLSSMSF LEIWYVSDITPKMLEGFLLQK RISFVGCMTQLYFFSSSLVCTEC VLLASMGYDRYVAICHPLRYN LACTDFSTAELV/SFILAFIILVFP LLATILSYWHITLAVLRIPSATG CWRAFSTCASHLTVVTVFYTA LLFMYVRPQAIDSQSSNKLISA VYTVVTPINPLIYCLRNKEFKD ALKKALGLGQTSH
16898	47266	A	17002	2	876	
16899	47267	A	17003	1	894	
16900	47268	A	17004	377	501	
16901	47269	A	17005	3	823	
16902	47270	A	17006	1	874	
16903	47271	C	17007	156	287	
16904	47272	A	17008	1	1140	
16905	47273	A	17009	1299	3135	ISGSVCILLWLQLLPAYNLIHT WEHRHSPPGT/RMSRLAKRNA WEADR/YAEAKLAASRRGQPSS LMSSREGGWGEGSQSRNSSHG ALKEAQFIITNAEKSLKDL MEL KTMAQELRDECTSLSSRFQLE EKVSVMEDEINEMKQEEKVRE KRIKRNEQSLQEIWDYVKRPNL HLIGVPESDRENGTKLENTLQDI IQENFPNLARQANIQIQEIQRMP QRYSSRRATPRHIIVRFTKVEM KEKMLRAAREKEIQTTIREYYK HLYTNKLENLEEMDKFLDTYS LPRLNQEEVESLKR PITGSEIGAI INSLPTKKSPGPDGFTAIFYQRY KKELVPFLLKLFQSTEKERILPN SFYEASIIIPKPGRDTTKKENFR PISLMNINAKILNKILANQIQQHI EKLIHHDQVGFIQMGQWFNIR KSINVIQHINRTNEKNHMIISIDA EKAQFDKIQQPFMLKTLNKL GID GTYLKIVRAIYDKLTANIILNGQ KLEAFPLKTGTRQGCPLSPLLF NIVLEVLAIRQEKI KGIQLG KEQVKLSLFADD MIVYLENPIV SAQNLLKLISNFSKVS GYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIK
16906	47274	C	17010	189	457	
16907	47275	A	17011	2	2600	
16908	47276	A	17012	107	1493	

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16909	47277	A	17013	3	2209	IHTKTPSVCHHHQRPKVDKTTK MGKKQSRNTGNSKNQSTSPPP KECSSAPAMEQSWMENDFDEL REEGFRRSNFSELTEEVTRHRK EAKNLEKKIRQM\VTRITNVEK SLNDLMELKNMARELRDKCTS FSSRFDQLEERVSVIEDQMNM KQEEKFREKRVK\RNEQSLQEIR DYVKRP\NLRLIGIPESDEENG T KLENTLQDIIQENFPNLARQAN IQIKEIQRMPPQRYSSRRATPRQI IVRFTEVEMREK\MLRAAREKG RVTHKGKTIRLTVDLSAETIQA RRESTRQKVNKDIQELNSAQHQ ADLTDNYRTLHPKSTEYTLFSA PHHTYSKIDHIVGSKALLSKCK RTEIITNCLSDHSAIKLELRIKKL TQNLSTTWKLNLLNDYWVH NEMKAEIKMLFETNENKDTTY QNLWDTFKA VCRGKYIALNAH KRKQERSKIDTLTSQKELEKQ EQSHSKASRRQEITKIRAELEKEI ETQKTLQKINESRDWFFEKINKI DRQLARLIKKKREKNQIDTIKN VLEFLAKAIRQDKEIKGIQLGKE EVKLFLFAEDMIVYLENPIVSA QNLLKLISNFSKVSGYKINVQK SQAFLYTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDMKDLFK ENYKPLLNKIKEDTKKWKNI PC SWVGRINIMKMAILPKVIYRFN APIKLPMTFFTELEKTTLKFTW
16910	47278	A	17014	292	699	
16911	47279	A	17015	269	803	ALGPCSEALPTWVNENGEEMA QEIDLSALKELEREAILQVLYRD QAVQNTTEEERTRAAGN*KHTC SISGGKGPKNTDWEHKEKCCA RCQQVLGFLLRGAVCRGCSH RVCAQCRVFLRGTHAWKCTVC FEDRNVKIKTGEWFYEERAKKF PTGDNSVARTSCTGKHETVGGQ LLQSYQK
16912	47280	A	17016	1	1173	
16913	47281	A	17017	349	718	AGPEGTTTAECPI/CQQQRPILS LRYGTISWG/DQSATWWQVDY IRTLLSWKWQSASAKTTIHGLT KCLIHHDIPHSIASD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSFNP

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16914	47282	A	17018	196	577	GSSGQSESAQPQGLWVLPSTRS LAILSTDVNV*QPCFPAGAHQG QPLAWVPFLAWLSWQKRC* KQQRSSRNLDHRNPGWLHEE GDKTPFFHHPFPQLGQSLSQQS LLPAGRR*ARGPQQLPSP
16915	47283	A	17019	1	2523	
16916	47284	A	17020	236	558	
16917	47285	A	17021	1610	2004	VTWSAQQMPWAIKNCPTHSP L GQGCLPQPKM*VVQNDQFQ*G* WTHCRKGKGGQVRVGVWPWQ TQNRGKGTFLTPLHSAVADAM LYAL*RGSDLDAAQTLPTAAQ DALYAVVPGGEPTGQLQVRHN EFALGQ
16918	47286	A	17022	1	735	
16919	47287	A	17023	88	1871	
16920	47288	A	17024	1	1299	
16921	47289	A	17025	2	260	
16922	47290	A	17026	144	1737	
16923	47291	A	17027	1	1182	
16924	47292	A	17028	262	1132	
16925	47293	A	17029	1	484	
16926	47294	A	17030	3	382	LKGAPDLELDGESRRTWRERK GRKRKERALGRWQV*RSRCA* P/STPAALNAPLQGASHSPFRLR NCWKGRSVRASSLLRQLAKGG CAARRLSWNLQIVQMYEGHS QQPGLQPRQLRWSSQTLRTA
16927	47295	A	17031	1	2022	
16928	47296	A	17032	209	403	
16929	47297	A	17033	213	1993	
16930	47298	A	17034	1	378	
16931	47299	A	17035	64	1180	SASHSGAPATSLYERGVCPAL RRPPAVLVCRAAASCTLLAMS DLQEEGKNAINSPMSPALVDVH PEDTQLEENEERTMIDPTSKEDP KFELGKVLWDVLAERI IVKQLEEDLYDGQVLQKLF/EK NLAGLQSLNVAEVTQSEIGQKQ KLQKVLEQLHDLRPRSWALR WLGNSIHGKNLVGNPQLLVSL AMHFRAPIRLPEHVTQVVVV RKREGLLHSSHISEELTTTTEM MMGRFERDAFDTLFDHAPDKL SVVKKSLITFVNKHLNKLNEV TELETQFADGVYLVLLMGLLE DYFVPLHHFYLTPEFSDQKVHN VSFAFELMLGRRPSRNRLVLK TWLTWDLKSPLRVLYNLFTKY
16932	47300	A	17036	3	764	

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16933	47301	A	17037	1	1230	
16934	47302	A	17038	1	313	
16935	47303	A	17039	145	263	IFLLYLKKNKVQNK*EIKQHFLG KIMSRDNNTYLTWGTE
16936	47304	A	17040	5	982	PTFSRAVATMFSRAGVAGLSA WTLQPQWQVRNMATLKDITR RLKSIKNIQKITKSMKMVAAAK YARAERELKPARIYGLGSLALY EKADIKGPEDKKKHLIGVSSD RGLCGAIHSSIAKQMKSEVATL TAAGKEVMLVGIGDKIRGILYR THSDQFLVAFKEVGRKPPTFGD ASVIALELLNSGYEFDEGSIIFN KFRSVISYRTEEKPIFSLNTVAS ADQHGVSMTDIDADVAAKITQ EY/NIWANIILLTLWKESTTSGG RSARG*QPWDNGQARIAFWRM DLNLDIWTFNRTQAVITKE LIEIISGAASSVKKENSAS
16937	47305	A	17041	1334	1790	
16938	47306	A	17042	1	930	
16939	47307	A	17043	2	477	SGLGRLPGPWQEAGSSRGPSG DMAGVKALVALSFSGAIGLTF/ LHMLGCALEDYGVYWPLFVLI FHAISSIPHFIAKRVTYDSDATS SACRELAYFFTTGIVVSCLWISP VILARVALIKWGACGLVLAIG NAVIFPYNSRGFSLYLGRGDDF SWEQW
16940	47308	A	17044	130	434	
16941	47309	A	17045	1	1365	
16942	47310	A	17046	656	839	
16943	47311	B	17047	16	149	

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16944	47312	A	17048	1	1317	MTLNEHA AFKHLFNKAHLAPP LIHLT LSGHSTCFREHRVG VICS HFAQDLWPEQGREDSFQKVILR RYEKC GHENLQLKIGCTNVDES LTYKRIHTGEKPCKCEECDKAF SKFSILT KHKVIHTGEKHYKCE ECGKA FTRSSSLIEHKRSHAGE KPYKCEE CGKAFSKASTLTAHK TIHAGEKPYKCEE CGKAFNRSS NLMEHKRIHTGEKPCKCEE CG KAFGNFSTLT KHKVIHTGEKPY KCEE CGKAFSWPSSLTEHKRIH AGDKPYKCEE CGKTFKWSSTL TKHKI IHTGEKPYKCEE CGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEE CGKAFKWSSRLSEH KRIHTGEKPYKCEE CGKAFSW VSVLNKHKKI HAGKKFYKCEE CGKDFNQSSHLTTHKRIHTGE KPYKCEE CGKAFSKASTLTAHK TIHAGEKPYKCEE CGKAFNRSS NLMEHKRIHTGEKPCKCEE CG KAFGNFSTLT KHKVIHTGEKPY KCEE CGKAFSWPSSLTEHKRIH AGDKPYKCEE CGKTFKWSSTL TKHKI IHTGEKPYKCEE CGKAF TTFSSLTKHKVIHTGEKHYKCE ECGKVFSWSSSLTTHKAIHAGE KLYKCEE CGKAFKWSSRLSEH KRIHTGEKPYKCEE CGKAFSW VSVLNKHKKI HAGKKFYKCEE
16945	47313	A	17049	2	2183	

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16946	47314	A	17050	3	1440	IKVLLGENRVPNTMAVWLAQ WLKGASLTSPPCPTASLLRR LGEHIQQFQESSAQGLSLGP GAAALPKVGWLEQLDPFNVS DRRSHLQRYWVNDQHWVGQ DGPIFLHLHTSPPTHTLFTGH PAALAPAWGALVISLEHRFYGL SIPAGGRLALSRLFNISSSPWIC FGGSYAGSLPSHHAPTAPRAQR IS*HFRIPSSAVRPQVVSRLMS TAIGGSLE/CRRWGLVRGGLGG KRGLGCQGRGGPA*VLADIASC FPQCRAAVSVAFAEVERRLRSG GAAQAALRTELSACGPLGRAE NQAELLGALQALVGGVVQYD GQTGAPLSVRQLCGLLLGGGG NRRGGIYVLCMYIVP*IVLHSLG QKCLSFSRAETVAQLRSTEPQL SGVGEAPIYLAPSYPPFPDTP WHVLSVTQALGSSESTLLIRTG SHCLDMAAPERPSDSPSLRLGRQ NIFQQLQTWLKLAKESQIKGEV
16947	47315	B	17051	41	2709	
16948	47316	A	17052	874	1024	
16949	47317	A	17053	1	1602	MDSLWGPAGAGSHPFVHNSRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNGGLSPFVP GPGPLQTDLHAQRSEIRYDQSS QTSWTSSCTNRNAISSYSSTGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKV AEKAPGQTLALRNDSSRSEASR PSTRKFLLPHRRGEPLMLPPPV ELGYRVTAEDLDWEKEAAFQC IKSALQVEDKAISDCRPSRPSHT LSSLATGASIDSAQVTSIPAPFP AASMDAGMRRTRPGTSAPAAA AAAPPSTLNRTLGSLEWMEA LHISGPQPQLQQVPRGQNQRSQ TSRTSSCPK/LKCHLELLQLYGR PPGTKAEEAPASSHCQLTLSSSN TVSEDGPEAVSSGHTQCEKTAD TAPGQTLGPRGGSPRSQSRRPR RHKFLLPRRRGEPLMLPPPLEL GYWVTAEDLDREKEAAFQRJN SALQVEDKAISDCRPSRPSHTLS SLATGASGLPAISKAPSMDAQQ ERHKS
16950	47318	A	17054	1	1155	

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16951	47319	A	17055	1	1237	MDSLWGPAGAGSHPFVHNTRL SPDLCPGKIVLRALKESGAGMP EQDKDPRVQENPGDQRRVPEV TGDAPSAFRPLRDNRLSPFVP GPGPLQTDLHAQRSEIRYNQTS QISWTSSCTNRNAISSSYSSMGG LPGLKRRRGPASSHCQLTLSSS KTVSEDRPQAVSSGHTQCEKA ADIAPGQTLALRNDSSSTSEASRP STHKFLLPRRRGEPLML\PPSL EVGVPGSLVKELDREKEAAFIQ RINSALQVEDKAISDCRPSWPS HTLSSLATGTSGPLPAISKAPSMD AQQETHKSQDCLGLLAPLASA AGVPSTAPMSGKKHRPPGPLFS SSDPLPATSSHSQDSAQVTSILP APFPAASMDVGMRRTRRGEPL MLPPPLELGYRVTAEDLDQEKE AAFQRIKSALQVEDKAI
16952	47320	A	17056	132	835	
16953	47321	A	17057	1	2947	MPEQDKDPRVQENPDDQRRVP KVTGDARSAFRPLRDNGVLSPP VPRPGPLQTYLHAQRSEIRYNQ TSQNTWTSSCTNQNAISSSYSS VGGLLGLKWRRGPAGQESGAG MPEQDK\DPRV\QQNPDDHRTV PEVTGDARSAFWPLRDNGGLSP FVPRPGPLQTDLHAQSSEIRYN QTSQTSWTSSSTKRNAISSSYSS TGGLPGLKQRRGPASSRCQLTL SYSKTVSEDRPQAVSSGHTRCE KAADTAPGQTLAPR
16954	47322	C	17058	229	624	
16955	47323	A	17059	1	1011	MVSTPATLPSLPKALMASWG VPYDQLTKEEKTRVWFTDGSA RYAGTTQKWTAVLQPLSRTS LKDSSEGKSSQWAEQAVYLV VHFAWKEKWPVGLYTDSPA VANGLAGWSETWEKQDWKIG DKEIWGRGMWMDLSEWSKAV KIFVSHVSAHQRVTSAEFEFNN QVDRPL/PVFTQWAHEQSGHSG RDGGYSWAQQTGLPFTKADL AMATAECPICQQQRPTLSPLY TIPQGDQPATWWQIDYIGPLPS WKGQKFVLTVIDTYSRYRFAY PAHNASAKTTIHGLIECLIH CYG IPHSIASDQSIHF/TTKEVQ*WAH AHGIHWSYHVSHHPEAAGL
16956	47324	B	17060	10	597	
16957	47325	B	17061	6	297	

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16958	47326	B	17062	1	474	
16959	47327	A	17063	1	2712	
16960	47328	B	17064	1	738	
16961	47329	A	17065	3	772	DPADPMVLEVSEADRDA\VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLTM GHQVTMRPELPIINCVLSDPCSH KVGHAQQHSIIKWRWYIHYQA QAGPEGTSNLHEEVAQMPTVS TSATLPSLPEPTQMAL\WEVPY D\QFTEEEKTGAWFTDGSAYT GTT*KWTVAAALQPLSRTTLKDS CEGKSPHPVIAQWAHEQSGH GGRDGGYLWAQQHGFPLTKA DLAMATAECPICQQQKRTLNP
16962	47330	A	17067	1667	2012	LSPHWPPGLPPSALIYAFLGRSS RNKRRLMKTMKVEACEDLSAP KYLRIQLPTGSPRRRSEAPEVCI FQGSS\FSLVHPPPLLSYPSARR* PQTTPRPPRHPSLHPLHPPSAQ
16963	47331	A	17068	5	1074	RHSALGTGGSSSCRQQRPRDT WVPETTILTAWSS/RLQQLGPW LQVTVAGQVNTLAGIQKTIHAE HCNVTE\RPPTGHEALAPPCEQ GPPQVLDSNAVAPTADCGYQL STAINRNQELCGRKPAVSPSR/G ISPGSPILRPAVHPGHYCLQQRL SGQKSNRRTTQKSFKLHVDK RKPENFSKESDHLIYSREGNPD VASLATPPGIWMMSATDLFYG DPFAFPGGGPFTLSLERGPSVIL GTDASEELLFTKASLAVSTSVF QFSTGKIYTEWVWQKNKSFLSP HFPTKPMASPVKGKSTSLQR LNYRDRWQCLQEGAGLALLSA HMKVPTGSKEPQQAGKLPSKP RKQTTPTFKD
16964	47332	A	17069	2	699	CSACPVSHPWLLPWQSGSAFSL P*RALQRPPQHGHRLSKPMQSP RLSVLLRPWRRPLPTDLLY*PS TRGHIHLHDRHHGAPSVSRRW GDKASPPQFPYRSRDSK/RRPPQ HGEVGTVFTNNKGGQS/PATST WEVQSAECQKAPEAGTPPSTA GDAEGANALRQESEGNWGSEA KSPHVAEAGSWRPQQGSCHHL HPPDKTKDAARKTHSPGDNGC QPRPPRPCKTLWSLSRI
16965	47333	A	17070	223	1611	
16966	47334	A	17071	12	310	

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16967	47335	A	17072	31	430	LQAVRLFTLPTTSSGL*KLRTVP TWSPSPSCFPHFQSGPRTTRAPT PSTI\PGYSGSYSSGPPSLCPTS RRAPPRHRVPAGRERLHIRVPP YPRPERHLLRVSRRGILGNNRV GRLPESRAIAGRKEEKTDTK
16968	47336	A	17073	1	474	
16969	47337	A	17074	153	1224	RVFSESVCSFVRNLEFLWRFAP PLAPAGRCPPGVPLQTSRDT AHRSSPLPPARASPGQVAAAYR WARCPGCGGRKPRSSGSWQLC RCPTLPPPPRGRSSSGRC/RTWP SPPSCFPHFQSGPRTTRAPTSTI\ PGYSGSYSSGPGR*GLSPLHAA/ VSPPLPPGGP*GSWARAGLGS ASAHSPCLCRSLIRSRS*QTCT RSPT*NCEVPPSAP*AASPLRTM FALVRTAGLKVHLLPLGYCTT MS*SSSMPQTVPVVVKVSNIPS VHPP*PCKDCTISRSRSIFTRSPI CNPPGFLLPFCSPSTGQ*SL*KEP PLASWTHFRSDVLLLFVSMNG STLSLGCP SQKAVIALVQVT
16970	47338	A	17075	215	1246	
16971	47339	A	17076	566	675	QPCRQQ/CLQPGSPPRFHARTLT VTLVHTRTHTHAH
16972	47340	A	17077	184	584	
16973	47341	A	17078	1	1167	
16974	47342	A	17079	849	2266	
16975	47343	A	17080	1505	1891	DAEKAFDEIQQ/PFMIKILSRISI QGTYLNVIKTIYDKPTANTILN VEKLKTFPLRTGTRQGCPLSAL LFNMVLEVIARAIRQEKGIKGIQ ISKKEVKLSLFADDMIVHIENPK DSSRKLELIKEFSKV
16976	47344	A	17081	1	842	
16977	47345	A	17082	155	531	GNLWSVDLRPGTPLRQNFRTI RQQHSRFTKNHCSQTPLIPRQ TGSGVDLSKLQQTCS*GSCLVC TIDLANAFPSIPVHKA/HQKQFA FSWQYTFVLPRLTWLQPC*V PNLPAAETNTEPSNGT
16978	47346	A	17083	1	1773	
16979	47347	B	17084	598	1428	
16980	47348	A	17085	3	227	
16981	47349	A	17086	1	207	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
16982	47350	A	17087	1	789	RDLQPFTSVTVHCRKGNDQTF GGPLDAGSELTLIPGDPKHHCG PPVKVGAYGGQVINGVLAHPL IWL VQKTDGS/WRMTVDYCKL NQVVIPIAAA VSDVVSLLLEQINT SPGTWYAAIDLANAFFSIPVHK AQQKQFAFSWQGGQYFTVLP QWYINSPALCHNLIRRDLCFS LPLDITLVHYIDDIMLIGSSEQE VANTLDFVRHLRARGWEINPT KIQGPSTSVKFLGFQWCGACQA IPSKMRDKLLHLVPPTTKKEAQ
16983	47351	A	17088	1	435	
16984	47352	A	17089	2	808	PLIWL VQKTDGS/WRMTVDYC KLNQVVIPIAAA VSDVVSLLLEQI NTSPGTWYAAIDLANAFFSIPV HKAQQKQFAFSWQGGQYFTV LPQWYINSPALCHNLIRRDLC FSLPLDITLVHYIDDIMLIGSSEQ EVANTLDFVRHLRARGWEINP TKIQGPSTSVKFLGFQWCGACQ AIPSKMRDKLLHLVPPTTKKEA QCLQLLACY/WALVETEHLTIS HQVTMRPELPIMNWVLFDPSSH KVGCAQQHSIIKWKWYVHDW ARAGPEGT
16985	47353	A	17090	2	544	
16986	47354	A	17091	1	633	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFFSIPVHEAHQKQFAFLPQ GYINFPALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLPEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLQLTWKAPEDIKMSKT DADADEEIEALRG
16987	47355	A	17092	1	3228	MVTSSLTVAITSLVTVVITSLVVI TSFVVVTTSLVTVVITSLVTVVITSL AIAIATLVVVLTFVTVVITSLV VTVVITSLVTVVITSLVTVVITSLV ITSLVVIITCLVLVITALGVVITS LGVVITSLVTVVITSLVTVVITSLV GVVITSLVTVVITSLVTVVITSLV VITSSIVVITPLVMVITSLTVIITS LFVVITPLVMVITFLIVVNTSLV VVLITLIVSPPSLCSLVVITFL VVAITSLVTVVITSLVTVVITSL
16988	47356	A	17093	1	471	
16989	47357	A	17094	1	1590	

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16990	47358	A	17095	332	1704	RGYVFCSWKKT DGS/WRMTVD YCKLNQVVIPIAAA VSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQKQKQAFSWQGGQYTF TVLPQWYINSPALCHNLIRRD DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYA WAQQCRLPLTKAD LNTATAKRPIQQQRPTLSPQY GTIPQGDQPATWWWVDYMG LPSWKGQRFVLTGIDTYSYGF AYPACNASAKTAICGLTECLIH HHDIPHSIASDQGFHMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQ LQCQLGD NTWQGWGKVLQKV VYALNQH PIYGTVSPIAKIHRRVADSLKGG SGSWVWGFSTLAALDNDLGT RKVRAPSTN
16991	47359	B	17096	1	2061	
16992	47360	A	17097	1	1623	
16993	47361	A	17098	1	741	
16994	47362	A	17099	213	679	
16995	47363	A	17100	33	853	
16996	47364	A	17101	3	1249	
16997	47365	A	17102	17	770	
16998	47366	A	17103	130	469	
16999	47367	A	17104	1	1425	
17000	47368	A	17105	1	882	

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17001	47369	A	17106	227	1519	VTLIKMNAMLETPTLSIAVSDG VKLSAVAAVLYVIVRCMNLKS ATAAPDLYLQDSGLSRFLKSC PLLTKEYIPPLIWGKSGHIQTAL YGKMGRVRSPPHYGHRKFITM SDGATSTFDLFEPLAEHCVGDD ITMVICPGIANHSEKQYIRTFVD YAQKNGYRCAVLNHLGALPNI ELTSPRMFTYGCTWEFGAMVN YIKKTYPLTQLVVVGFSLGGNI VCKYLGETQANQEKVLCCVSV CQGYALSRAQETFMQWDQCR FYNFLMADNMKKIILSHRQALF GDHVKKPQSLDSDLRLYTAT SLMQIDDNVMRKFHGYNSLKE YEEESCRLHRIYVPLMLV NAADDPLVHESLLTIPKSLSEKR ENVMFVLPLHGGHLGFFEGSVL FPEPLTWMDKLVVEYANAICQ WERNKLQCSDEQVEADLE
17002	47370	A	17107	21	385	SRSSSVVRQEPGRADGQRRRRR GGPGLRSPGERQQPRPARPCR AHPGDPAGAQ/PPPKTGKTCG APKATTRSTRCSISR*PPFPRSSC PTSPRATPSSASSTAAMRRWL VTCRMPNWRA
17003	47371	A	17108	158	423	
17004	47372	A	17109	1	1851	
17005	47373	A	17110	1	1104	
17006	47374	A	17111	66	432	
17007	47375	A	17112	103	3531	
17008	47376	A	17113	1	1311	
17009	47377	A	17114	1	750	
17010	47378	A	17115	183	373	QPQATTLVHPVHVA*LF*VHW QNRYPADNQGYRHWRCLLPA LPDAGR/VRLSASC*KPPNSRG
17011	47379	A	17116	344	480	SPKDQEPSISKV***TSLPTSSR SLCLPPARMHFWVLAALLSFA
17012	47380	A	17117	3	3565	HEARRGLKMAACGRVRRMFRL SAALHLLLLFAAGARNSPARA SHSQGGPGANFVSFVGQAGG GGPAGQQLPQLQSSQLQQQQ QQQQQQQPQPQPFPAGGPP ARRGGAGAGGGWKLAEESCR EDVTRVCPKHTWSNNLAVLEC LQDVREPENEISSDCNHLWNY KLNLTTDPKFESVAREVCKSTIT EIKECADEPVGKGYMVSLVD HRGNITEYQCHQYITKMTAIFS DYRLICGFMDDCKNDIN

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17013	47381	A	17118	1	495	PDRRRGCPALSGS*SGPAPRL/C LCNPTLTFHPGSVIGVCL*RHW LCRANTRHPSYRGRLSSR
17014	47382	A	17119	1	1479	
17015	47383	B	17120	67	8652	
17016	47384	B	17121	67	9183	
17017	47385	A	17122	1	1440	
17018	47386	A	17123	1	422	FRWKELDRPLEPSPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLNEFYEHYHALM MEEEGAVIVG
17019	47387	A	17124	2	587	WMGSCGLHRAWLQMRWWPE SAWKELDRPREPPETAQPPPP WLQK/NPTAVERANLLNMAKL SIKGLIESALSFGRTLDSYPPL QQFFVVMHCLKHGLKVRKSF LSYNKTIWGPLELVEKLYPEAE EIGASVRDLPGLKTPGRARAW LRLALMQKKMADYLRCLIIQR DLLSEFYEHYHALMMEEEGAVI
17020	47388	A	17125	312	493	
17021	47389	C	17126	102	278	
17022	47390	A	17127	2	140	KAHNCSGLERPPLDNPSVSNRL FASFLSPRDLKGR\ICSD*SQVL
17023	47391	A	17128	1	2051	
17024	47392	A	17129	1	498	
17025	47393	A	17130	2	340	
17026	47394	A	17131	140	396	
17027	47395	A	17132	703	912	
17028	47396	B	17133	201	912	
17029	47397	A	17134	1	1382	
17030	47398	A	17135	2	431	
17031	47399	B	17136	99	1151	
17032	47400	A	17137	1	891	
17033	47401	A	17138	15	2722	

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17034	47402	A	17139	476	2934	TEPKTKTT*LSQ*MQKKPLTKF NNPSC*KLSIN/IVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLRFIWNQKRARIAKAI LSQKNKAVGITLPDFKLYYKAT VTKTAWYWYQNRDIDQWNRT EPSEITPLIYNYQIFDKPEKNKQ WGKDSL FNKWCWDNWL AICR KLKLD PFLT PYTKINSR WIKAL NLRPKTIKTLEENLGITQDIGTG KDFMTKTPKAMATKD KIDKW DLIKLKS FCTAKETTIRVNRLPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWEKDMNR HFSKDDILA AKKHMKKCSSLAI REMQIKTTMRYHLTPVRMAIIK KPGNNSQKDIPDWRNGPKRKD RQITTFRGPTKLQVVVPTLGAA PGRGCPWPRRPRCPGREGEELH PALGGERGQRQAAGSGGARRL APSAGDGLCVGPVEDTGETQT WKTGQPGLREPWWGWRPTEPP PAPSSHSEEWPRRPPVRRAPRP AGEHAGEGGA AVADTTAFSPW LPRVGGWHLQVHRGGRSCAGA RRFGGSRGWD LGDLSSAPVASL
17035	47403	A	17140	1	2298	
17036	47404	A	17141	3	482	
17037	47405	A	17142	1	1026	
17038	47406	A	17143	1	623	
17039	47407	A	17144	25	392	ESLKGADPKFLRNMR FANKHN KKGLKKMQANSARATSARAD AIKALVKPKEGKPDIPKGVSRK LDPLAYIAHPRLGKCAHSCIAK GLKLCRLQAKDKDQTKAQAA APA*APKGARTPTKASE
17040	47408	A	17145	1	507	

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17041	47409	A	17146	2	811	YRFSGPTIRSIQNHTTHNQGRK WHKKGIKKPRAQRYESLKGPE V*PSGQGVTCLLRADWLSPLL SGTY\VGPKFLRNTRFAKKHNK KGLKKMQANNAKAMSARAE A\KALVKPKVEVKPKIPKGGASR KLRSTLPDIVHP\KLGKSARAPY LPRGFRLCLPNANAKSISSQGG GQQGQGSNQGPFGPKQLQVP ASGVPNVPRALTGKFQSRYSLA QHEGQERTWVRPPTPRPWGYH FAWGWGSPVAICTNKPEAGKR RNEKEKLCQGDGY
17042	47410	A	17147	1	636	
17043	47411	A	17148	169	410	
17044	47412	A	17149	385	1359	QTNSPNCVRGRVSPVLPGSSS MDVLASYSIFQELQLVHDTGYF SALPSLEETWQQTCLERYLQ TEPRRISETF\GEDLD\CF\HAFP SPCIEESFRRLDPLLLPVEAAICE KSSAVDILLSRDKLLSETCLSLQ PASSSLDSYAVNQAQLNAVTS LTPSSPELSRHLVKTSQTL SAV DGTVTLKLVAKKAALSSVKVG GVATAAAVTAAGAVKSGQS DSDQGG LGAEACPENKKRVHR CQFNGCRKVYTKSSHLKAHQR THTGEKPYKCSWEGCEWRFAR SDELTRHYRKHTGAKPFKCNH CDRCFSRSDHLALHMKRHI
17045	47413	A	17150	1	948	
17046	47414	A	17151	400	446	PSFLR*PSFWSREFH
17047	47415	A	17152	7212	10914	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVVIRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17048	47416	B	17153	1	14934	

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17049	47417	A	17154	999	3009	ADSGCKL/PSSC*HVLCA/WV TY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSGH RHLGDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVVIRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDPRPSRFTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSVDTVAV GLVSSVVVYPVYLAILFLFRMS RSKVAGSPSPTPAGQQVLDIDS CLDSSVLDSSFLTFSGLHAEVRT LLGVLGWAGGPAALAQGLKT LCTSQQAFVGMKSDLFLDDS KSLVCWPSGEGTLSWPDLLSDP SIVGSNLRQLARGQAGHGLGPE EDGFSLASPYSPAKSFSASDEDL IQQVLAEGVSSPAPTQDTHMET DLLSSLCAEVHTALPLHCSCLO DSVQWHA VQGLPAFCRGDPVT QEAQETARPA AQNLVLIPLHAA PHQVAEIDALYDVYLDVIDK WGTDDMLFLGDFNADCSYVR AQDWAAIRLSSEVFKWLIPDS ADTTVGNSDCAYDRIVACGAR LRRSLKPQSATVHDFQEEFGLD QTQASGPWGGAGLGSPPPGRT QAAGRALAISDHFPVEVTLKFH
17050	47418	A	17155	242	363	TKRQENGRKKQDRTPTEQQLR VK*KSRSTKKRRKQSRSES
17051	47419	B	17156	1	12879	
17052	47420	A	17157	3	596	NLLFPVRSERGPHRPTLSWLW LRPCELNKLAAAGGLAAGSSRA GALYLLIYIPRRPARAAPLCPAA ATGAPGASAGSASPASARPPGL ARAAPGPLRGRRPRSPRTPFCV/ WLGVSLLLSYQHYFAEPFESFQ VCCRHCILCLTIRVHFPCLSAN PFHFSQLHLGPRPGKACHSVGL QIYNSQAHSHPSQQERQLFC
17053	47421	A	17158	1	235	FFFVLYNLFLFVITSIPLQKVSIL TQRQLVAENVKCCTVPEPQ** *LSNYPIFVEMGFCHVGP GWSR TPTPKSVSR

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17054	47422	A	17159	256	4064	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSRGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SDAALLRFRLLVAELQRGFFD KHIWLSIWDRPPRSRFRTRIQRAT CCVLLICLFLGANAVWYGAVG DSAYSTGHVSRLSPLSV
17055	47423	A	17160	2	347	LTSRGP/LCCVLLICLFLGANAV WYGAVGDSAYSTG/LCVQAEP AERRHSRCWPGVQRGCLSRLP GHPLSLPDVPEQGGWEPEPHTC RAAGAGRRQLPGLNPCWTAPS SRSEASTLR
17056	47424	A	17161	9415	9994	ADSGCKL/PSSC*HVLCA/WVTY MVMAAILHKLDQLDASRGRAI PFCGQRGRFKYEILVKTGWGR GSGTTAHVGIMLYGVDSRSRGH RHLDGDRAFHRNSLDIFRIATP HSLGSVWKIRVWHDNKGLSPA WFLQHVIVRDLQTARSAFFLVN DWLSVETEANGGLVEKEVLAA SKASFRVPTPSRSPVALPAPAGG
17057	47425	A	17162	1030	1222	
17058	47426	A	17163	2	2762	
17059	47427	A	17164	25	115	
17060	47428	A	17165	1	383	
17061	47429	A	17166	120	596	IKAPCASFPTSGFPGQRRSFVGR SSSTPEECGHSELGRNEDKASR GRIRQQ/PFAVLKYLLFCSLRW* YPGKQGLEWTSSKLQQTCKRY RERHKDTPQEEQLQDT*LSG/V TK/G*NEGKNVKGSRERSGYS QREAHQTNRSRLGRNSTSQKRV GASIQRS

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17062	47430	A	17167	1	2236	RPSGPQPLPGSVRHRPVLRRPL PRAQGSSSSFRPRPPFAPDTMD KFWWHAAWGLCLVPLSLAQID LNITCR\FAGVFHVEKNGRYSIS RTEAA\NLCKAFNSTLPTMAQM EKALSIGFETCRYGFIEGHVVIP RIHPNSICAANNTGVYILTSNTS QYDTYCFNASAPPEEDCTSVTD LPNAFDGPITITIVNRDGTTRYVQ KGEYRTNPEDIYPSNPTDDDVS SGSSSERSSTSGGYIFYTFSTVH PIPEDSPWITDSTDRIPATSTSS NTISAGWEPNEENEDERDRHLS FSGSGIDDDDEFISSTISTTPRAF DHTKQNQ\DW\TQW\NPSH\SNP EVLL\Q\TTTRMTD\VD\RN\GT\TA YEGNWNPEAHPPLIHHEHHEEE ETPHSTSTIQATPSSTTEETATQ KEQWFGNRWHEGYRQTPREDS HSTTGTAASAHTSHPMQGR TPSPEDSSWTDFFNPISHPMGRG HQAGRMDMDSSHSTTLQPTA NPNTGLVEDLDRTGPLSMTTQ QSNSQSFSTSHGLEEDKDHP TSTLTSSNRNDVTGGRRDPNHS EGSTTLLEGYTSHYPHTKESRT FIPVTSKTSFGVTA\TVGDS NSNVNRSLSGDQDTFHPSGGSH TTHGSESDGSHSGSQEGGANTT SGPIRTPQIPEWLIILASLLALALI LAVCIA\NSRRRCGQKKKLVIN SGNGA\VEDRKPSGLNGEASKS
17063	47431	A	17168	1	1980	

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17064	47432	A	17169	362	2551	EDFSTSATTPSSSPRELPSGQGL WLCWLELLPSFTRNGVVHTGP C*GLC*RWQLSPQPSLPSNFGM KISDMATLITVPAA/FSSSSDW NTPAPTQSPPEVRRLHLCTSF DMLKVGGQGEGAAAAGLVQNP SGHALGCLDSAASGISDPSVAV LLENVPNQRGESLRCVPVYLGQ WNCSETGMDSGQFGEEKGAH DPSPTYHACLSTQW,WPSPEP YPQPSGPQVKEPRNPGKSISML CLWIRYHAADSGSSRAKLPLEE RLRPFSPTHDCLAFPLPLEKRPE GNVGSRCPSGTLPEEGSGSNI CCSAIFPVLPPLVIPRQTRSGV DLQQTPTDLQLRDLTDRSSLPA MEQSWIENDFDELNRSRLQKA NKLENLEETDKFLDTYTLPRLN QEETESLNRPTGSEIEAIIINNV TKKSPGPDGVTAKFYQRYKEE LRTVNKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGIDATYTKIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFYN NNRQTENQIMSELPFTIASKRIK YLGILTRDVKDLFKENYNPLL NEIKKDTNKWKNIPCSWIGRINI MKMAILPKSGPSAARLLEFAGG PLQTLFAWVSPEEAAEQQILPN
17065	47433	A	17170	1	483	
17066	47434	A	17171	52	321	
17067	47435	A	17172	274	393	
17068	47436	A	17173	304	415	
17069	47437	A	17174	321	796	
17070	47438	A	17175	1	198	
17071	47439	A	17176	2	454	CRPVPAATNGRCFPATPRDPGP RMRRACAWGRSKGAGRCLRR ATRRDKMAKKESILDLSK\YID\ KTIRVKFQGGRK\ASGILKGFE NLL\NLVLTVTI*YMRDPDDQY KLTED\TRQLGLVVFRG\TSLVL VCPQDGMEAI PNPFIIQQQDA
17072	47440	A	17177	1	1806	
17073	47441	A	17178	1215	2065	
17074	47442	A	17179	217	441	
17075	47443	A	17180	117	296	DWSDIQKLG*SLSLSKEIFQL*IV SPPALHPAKLLHRSA*LSVPQIG RECQGCGWTAMC

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17076	47444	A	17181	2	138	LRTAPEFPGRRFRGCAAAAES VAALL*STPPCRSGDSLCKGKSR
17077	47445	A	17182	222	760	
17078	47446	A	17183	192	244	YIQPVF*GWTLGCCQFF
17079	47447	A	17184	1	990	
17080	47448	A	17185	1	2196	
17081	47449	A	17186	459	1387	
17082	47450	A	17187	2	454	
17083	47451	A	17188	1	957	
17084	47452	A	17189	398	553	
17085	47453	A	17190	2	293	
17086	47454	B	17191	53	182	
17087	47455	A	17192	3	1114	
17088	47456	A	17193	1	1024	SVVEFIPSCAVVLWSSVLLSPVR LLSYLSGVPPGHPMEDSMDMD MSPLRPHNYLFGCELKAGQDY HFKVDNDENEHQLSLRTVSLG\ AGAKDELHIVEAEAMYYEGSP IKV/THLATLKMSVQPTVSLGG \\FEITPPVVLRLKCGSGPVHISG QHLVA\\EEDAEESEDEEEDVK/ LSLSISGKRSAP\\GGGSKVPQKE RKTCLMLMKDDDD\\DDEEDGYD EDD\\DDDDDD\\DDEEAEEKAP SERNL YRDTPAKNAQKSNQNG KDSKPSSTPRSKGQESF\\KKQEK TPKTPKGPSVEDIKAKMQASI A/EKGGSLPKVEAKFINYVKNC FPMTDQDAIQDLWQWRKSL
17089	47457	A	17194	2	291	
17090	47458	A	17195	185	307	
17091	47459	A	17196	3	392	VRGGQAFRQRPAPPLPVTRSAH RGRRPTRASQPSLFHLLREGK MSESSSKSSQPLASKQEKDGTE KRGRGRPRKQPIVSPGTALVG SQKEPSEVPTPKRPRGRPKGSK/ NKLEKEEEEGISQESSEEEQ
17092	47460	C	17197	76	378	
17093	47461	B	17198	1803	1905	
17094	47462	A	17199	1	416	
17095	47463	A	17200	30	407	
17096	47464	A	17201	1	993	
17097	47465	A	17202	1	1287	
17098	47466	A	17203	1	2004	
17099	47467	A	17204	1	1368	
17100	47468	B	17205	1	3035	
17101	47469	B	17206	1	981	
17102	47470	A	17207	1	2017	
17103	47471	A	17208	1	1069	
17104	47472	A	17209	1	2463	
17105	47473	A	17210	1	324	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17106	47474	A	17211	51	1528	GREASKMAQTQGTTRRVCYY YDGDVGNYY*G\QGHPMKPHR IRMTNLLLNYGLYRKMEIYRP HKANADEMTKYHSDDYIKFLR SI/RVPDNIVGSTSKQMQRFNVG EDFPSIPMACFEFCQLSTGGSVA KCL*NFNKQQT DIA VNWAGGL HHAKKSEASGFCYVNDIVLAIL ELLKYHQRVLYIDIDIHHGDGV EEAFYTTDRVMTVSEHKYGEY FPGTGD\ERDIGAGKGKYYAVN YPLRDGIDDES YE AIFKPVMSK VMEMFQPSAVVLQCGSDSLSG DRLGCFNLTIKGHAKC VEFVKS FNL PMLMLGGGGYTIRNVARC WTYETAVALDTEIPNELPYNDY FEYFGPDFKLHISPSNMTNQNT NEYLEKIKQRLFENLRMLPHAP GVQMQAIPEDAIPEESGDEDED DPDKRISICSSDKRIACEEFSDS EEEGEGGRKNSSNFKKAKRVK TEDEKEKDPEEKKEVTEEEKTK EEKPEAKGVKEEVKLA
17107	47475	A	17212	1	492	
17108	47476	A	17213	1	1851	
17109	47477	A	17214	1	753	
17110	47478	B	17215	427	614	
17111	47479	B	17216	1	711	
17112	47480	A	17217	750	1173	
17113	47481	A	17218	1	1224	
17114	47482	A	17219	1242	1743	
17115	47483	A	17220	423	1739	
17116	47484	A	17221	117	1183	
17117	47485	A	17222	1	377	FRRGAW/VPLLTRWGFPRGGC ISNDSPRRS/IHYRETKPEPPVRV CARGLQRTPSAGHRAVLRMPR RGRTRPGAPQGG AALGGPARD RECACAGRGAQT FALRKNCVC KMPSGRGRTCSKNFSYFPS
17118	47486	A	17223	331	1134	
17119	47487	A	17224	178	1200	
17120	47488	A	17225	1	367	
17121	47489	A	17226	85	3360	
17122	47490	A	17227	8	930	
17123	47491	A	17228	1	765	
17124	47492	B	17229	120	509	
17125	47493	A	17230	232	3187	
17126	47494	A	17231	1	999	
17127	47495	A	17232	1	325	
17128	47496	B	17233	1	535	
17129	47497	A	17234	271	634	

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17130	47498	B	17235	301	523	
17131	47499	A	17236	1	1185	
17132	47500	A	17237	178	497	LPVPAYELNGSQQLPLLGGAAA IGYLAYKRFYVKDHRNKAMIN LHIQKDNPKIRHAFDMEADLGD KAVYRCRCWRSKKFPFCDGAHT KHNKEVTGDNVGPLIIKKKET
17133	47501	B	17238	184	395	
17134	47502	A	17239	1	103	PAWHEGQPQPESECPQRQCIC SHGRGTPARCGVSY*ART/PAG ESP*TQQDLRAS*LGTRANHSQ RASARHKDSASAVTGAGHQRD AE
17135	47503	A	17240	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFPSSVLNCSKCSWQLAAC MGFSF
17136	47504	A	17241	265	890	
17137	47505	A	17242	1	1374	
17138	47506	A	17243	1	6189	
17139	47507	A	17244	1	8277	
17140	47508	A	17245	178	1177	
17141	47509	A	17246	1	447	
17142	47510	A	17247	1	465	
17143	47511	A	17248	3	3910	
17144	47512	A	17249	2	1871	
17145	47513	A	17250	1	666	
17146	47514	A	17251	1	635	FPGRFRRAVWCTHCCAPTPSG PVLPHSAAMSFLKSFPFPGPAE GLLRQQPDTEAVLNGKGLGTG TLYIAESRLSWLDGSGLGFSLE YPTISLHALSRDRSDCLGEHLY VMVNAKFEEESKEPVADEEEEE DSDDDVEPITEFRFVPSDKSAF* FPCSVEAMFTAMCECQALHPD PEDEDSDDYDGEEYDVEAHEQ GQGDIPFTFYTYEEGLS
17147	47515	A	17252	1	2796	

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17148	47516	A	17253	1	2393	MEIRGALDLRKQVLIFLVLLG LSRAGTESAHYSVAEETEIGSFV ANLARDLGLGVEELSSREARV VSDDNKKYLHLDLLTGNLLN EKLDRDELTCGSTEPVLFHFQVV LENPLQFFRFELCVKDINDHSPT FLDKEILIKISEGTTVGATFLME SAQDLDVGSNSLQNYTISPNSH FYIKIPDSSDRKIYPELVLDRA DYEQEAELRLTLTAVDGGSPPK SGTTLVLIKVLNDINDNAPEFPQS LYEVQVPEDRPLGSIATISAK DLDAAGNYGKISYTFHASEDIR KTFEINPISGEVNLRSPLDFEVIQ SYTINIQATDGGGLSGKCTLLV KVMDINDNPPEVTISSITKRIPE NASETLVALFSILDQDSGDNGR MICSIQDNLPFLKPTFKNFFTL VSEKALDRESQAEYNITITVTDL GTPRLKTEYNITVLLSDVNDNA PTFTQTSYTLFVRENNSPALHIG SVSATDRDSGTNAQVNYSLLPP QDRHLPLASLV SINADNGHLFA LRSLDYEALQEFEFVVGATDRG SPALSSEALVRVLVDANDNL PFVLYPLQNGSAPCTELVPRAA EPGYLVTKVVAVDGDSGQNA WLSYQLLKATEPGLFGVWAHN GEVRTARLLSERDAAKHRLVV LVKDNGEPPRSATATLHVLLVD GFSQPYLPLPEAAPAQADLL TVYLVVALASVSSLFLLSVLLF
17149	47517	A	17254	89	1283	
17150	47518	A	17255	1	276	
17151	47519	A	17256	2	259	WQGGILGSDPTPPLTSPNLLQT ACFREERDV/RRERGQPLGDHS ALCLPRRGVPVPCDGLLCWWG PPDAAEPLRGPSPARAGPVLP
17152	47520	A	17257	624	4055	
17153	47521	A	17258	3	1784	
17154	47522	A	17259	1	1272	
17155	47523	A	17260	3	576	
17156	47524	A	17261	1	1017	
17157	47525	A	17262	1	1107	
17158	47526	A	17263	256	634	
17159	47527	B	17264	76	1340	

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17160	47528	A	17265	1659	2107	NLLCCTCSPFSSPVSAQTCTSN CIALLVHQQWLVSLLQKHF LHLHIFLA\LIVFNFSLSHF*IFDF DPWKLPP*PISPTLSSLPSNRHIA LILPCSCMTEDDFDKMPPAVAR YMTSPQAVHIIAVCPFKASRKV SHSSLKIWLFKSV
17161	47529	A	17266	248	540	KFFSLRMLNINPHCLLACRVSA ERSAVSLMGFPLCISRPFSLAAL NIFSISTLVNLMIIISLGVALLEE YLCGILCIS*IGMLACLARLGKF SWIIR
17162	47530	A	17267	4880	5121	
17163	47531	A	17268	468	602	CLQLCSFGLGLTW*CGLFFYST *TLK*FFPIL*RMMVVF*WGLH
17164	47532	A	17269	359	462	
17165	47533	A	17270	457	600	LWWFNALFLCWLTSLTTTLL LHECLPVWRD*TRRHLTGWSK GSCTN
17166	47534	A	17271	2405	2830	TPVFRFIALSYTFADSDGEYF*IL LSENQRFFKCCFNMRSNKIPW DTFANSIKGAEFSGKHFIETFISS SESESESESTRFRDFRGLETSSSL SLDSFSLGDDFLSFLSFTIDA VSSKRLSKEIRKARLCWRFPRI
17167	47535	A	17272	1	2172	
17168	47536	B	17273	446	625	
17169	47537	B	17274	1	2604	
17170	47538	A	17275	1	3039	
17171	47539	B	17276	1	1383	
17172	47540	A	17277	1	993	

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17173	47541	A	17278	3	2494	RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFSSAPH HTYSKIDHIVGSKTLLSKCKRTE IITNYLSDHSAIKLELRIKNLTQS RSTTWKLNLLNDYWVHNE MKAIEIKMFFETNENKDDTYQN LWDAFKAVCRGKFIALNAYKR KQERSKIDTLTSQLKELEKQEQ THSKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKNNKREKNQIDTIKNDK GDITTNPTIEIQTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNHHSI NVIQHINRAKDKNHMIIISIDEK AFDKIQPFMLKTLNKLIG/DKI PRNPTYKGCEGPLQGELOTTAQ GNKRGHKQMEEHSMMLGRKN QYHENGHTAQG/IL*IQCHPHQ ATNDFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTILOGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QP*EKQAMGKGFPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RFKR*T*NHKNPRRKP RHYHSGHRHGQGLHVQNTKSN
17174	47542	A	17279	285	502	
17175	47543	A	17280	1	3189	
17176	47544	B	17281	1	1235	
17177	47545	A	17282	1	3139	
17178	47546	B	17283	1	1779	
17179	47547	B	17284	1	3127	
17180	47548	A	17285	1	3325	
17181	47549	A	17286	1	3145	
17182	47550	A	17287	1	1095	MIMGDFNTPLSTLDRSTRQKVN KDIQELNSALHQAADLIDIYRTLH PKSTEYTFSSASHLTYSKIDHIV GSKALLSNCKRTEIITNYLSDHS AIKLELKIKKLTNPRSTTWKLN NLLNDYWVHNEMKAIEIKMFF ETNENKDDTYQNLWDTFKAEC RGKFIALNAHKKRQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEMETQK/TLQKINE SRG/WKKFLEKLCFIELS*ARRI

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17183	47551	A	17288	1	3229	
17184	47552	A	17289	1	1205	
17185	47553	A	17290	1	986	
17186	47554	A	17291	1	3170	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLS DG S AIKLELRIKNLTQNRSTTWKLN NLLLNDYWVPNEMKAEIKMFF ETNENKDDTTYQNLWDTFKA V CRGKFIALNAHKRKQERP KIDT LTSQLELEKQE QTHSKASRRQ EITKIRAELEKETQKTLQKIN* S QSWFFERVKKIDRPLARLIKKK REKNQIDTIKND
17187	47555	B	17292	1	2148	
17188	47556	A	17293	1	1416	
17189	47557	A	17294	1	3099	MGELITPLSTLDRSTRQKV N KD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLS D H S A IKLELRIKNLTQNRSTTWKLN N LLLNDYWIHNEMKAEIKMFFET NENKDDTTYQNLWDAFKA V CR GKFIALNAHKRKQERSKIDTLT SQLKELEKQE QTHSKASRRQE I TKIRAELEKETQKTLQKIN E SR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
17190	47558	A	17295	1	3345	
17191	47559	B	17296	1	3122	
17192	47560	A	17297	1	2118	
17193	47561	A	17298	965	4091	
17194	47562	B	17299	15	2762	
17195	47563	A	17300	1	3049	MTVKVRITVTSGKKPPWLIPRQ TGYGVDLWQTPTDLQLRVLT V RRKTNKQKGHPHQNPICTSPSS KTKDRSTRQKV N KD I QELNSAL HQEDLIDIYRTLHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKW KRTEITANCLSDHSAIKLELRIK KLTQNWSATWKLNLLLND C WVHKEMKAEIKMFFETK A EN K \ DDTTYQNLWDAFKA V CRGKFIA LNAHKRKQERSKIDTLTSQLKE LEKQE QTHSKASRR

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17196	47564	A	17301	3	4101	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPLND YWVHKEMKAEIKMFFETNENK DDTYQNLWDAFKAVCRGKFIA LNAHKRKQERSKIDTLTSQKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
17197	47565	A	17302	1	3234	MANKNNQCREVLKGPDELKT MAREPHDKCTSFSSQFDQLEER VSAMEDQMNMKREEKFREK RIKRNEQRLQEIWDYVVRPNLC LIGVPESDGENGTKLENTLQDII QENFPNLARQANIQEIQRMP QRYSLRRTTPRHIIVRFTKVEM KEKMLRAAREKGRVTHKGKPI RLTADLSAETLQARRESTRQKV NKDIQELNSAQHQADLTDNYR TLHPKSTEYTLFSAPHHTYSKID HIVGSKALLSKCKRTEI
17198	47566	A	17303	1	3390	MLTLNHNRLTDAILNISTCLSR HLDLNTGGKKRISYKRNLYME EHLEGLCSNEFTWENSTIMTDS QMLMHREEPGSLPNIPILSIVFT NNRSKRQKVNKDIQELNSALH QADLIDIYRTLHPKSTEYTFSA PHHTYSKTDRIVGSKALLSKCK RTEIITNCLSDHSAIKLELRKKL TQNCSTTWKLNLLNDYVW HNEMKAEIKMFFETNENKDTT YQNLWDTFKAVCRGKFIALNA HKRKQERSKIDTLTS
17199	47567	B	17304	1	2427	
17200	47568	A	17305	1	4257	
17201	47569	A	17306	1	3726	MVVKTNARELRDECTSLSSPFN QLEERVSVMENQMNKMKQEE KFREKRIKRNEQSLQEIWDYVK RPNLCCLIGVTESDGENGTKLEN TLQDITQENFPNLARKANIQIE TQRTQRYSSRRATLRHIIVRFT KVEMKEKMLRAAREKDFTPTK IKRDKEGHIYIMVKGSIQEEELTI LNIYAPNTGAPRFIKQVLSDLQ RDLDSHTLIMGDFNTSLTLDR SMRQKVNKDTQELNSSLHQAD LIDIYRTLHPKSIE
17202	47570	A	17307	1	1059	

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17203	47571	A	17308	130	1092	
17204	47572	A	17309	1	924	
17205	47573	A	17310	1	1206	
17206	47574	B	17311	1	1257	
17207	47575	A	17312	1	685	MEILLRICKLTISKELLDSGSSRL TMTHYKHRYFSHSAEEQIISEEL NESEMICQHHTAENDFDELRE EGFRRSVITNFSKLKEDVQTHF KEAKNLEKRLDEWLTRINSVEK TLNDLM*LKTVA*ELRDTYTSF NSRFDQVEERVSVIEDQMNE EREKFKREKRV*RNEQS/LQEIW NYVKRPNLHLIGVSEIDRENGT KLENTLQDIFQENFTYLARQAN IQIQEI
17208	47576	B	17313	70	1227	
17209	47577	B	17314	640	751	
17210	47578	A	17315	1	2328	MGVSGAQPGRSCWHRSSSTGSQ GLGPVPEPADCGGEAAGRARE EGTVSLTMGTADSDEMAPEAP QHTHIDVHIHQESALAKLLLT CSALRPRATQARGSSRLVASW VMQIVLGILSAVLGGFFYIRDY TLLVTSGAAIWTGAVAVLAGA AAFIYEKRGGTYWALLRTLTL AAFSTAIAALKLWNEDFRYGYS YYNSACRISSSSDWNTPAPTQSP EEVRLHLCTSFMDMLKVGGQ GEGAAAGLVQNPSGHALGCLD SAASGISDPSVAVLLENVPNQR GESLRCVPVYLGQWNCSETG MSGQFGEEKGAHDPSTYYH ACLSTQWWPSPESPYPQSPGPQ VKEPRNPGKSISMLCLWIRYHA ADSGSSRAKLPLEERLRFSPTH DCLAFPLPLEKRPEGNVGSRCP SGTKLPEEGSGSNICCSAIFPVL QPPLVIPRQTRSGVDLQQPTPD LQLRDLTVRRKTNKQKGHPHQ NPMCTSPSSKTELKEDVRTHH KEAKNLEKRLDKM\VNRIINSVE KTLNDPMELKT\QARELHDKCT SFSSRFDQLEERVSVTEDQMNE MKREEKFKREKRV\RNEQSLQE IRDYVKRPNLCLTGVPESDGEN ETKLENTLQDNIQENFPNLARQ ANIQIQEIQRTPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAGE KGQVTHKGKPIITLTADLLAETL
17211	47579	A	17316	508	666	
17212	47580	A	17317	622	780	

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17213	47581	B	17318	1	777	
17214	47582	A	17319	1	508	MSGFEKQYKKIRLDKTLDSENE GLELPVPAKRSNLGVRLYACC GLLLCPAYPQHFAHGYVDKIPG YPGRAGTLTGLHPMQVCRCRR QAPCLKSNNALIVILGTVTLDA VGIGLVMPVLPGLLRDIVHSDSI ASHYGVLLALYALMQFLCAPK YKLPSENTTNTSMQIN
17215	47583	B	17320	310	1047	
17216	47584	A	17321	1	1101	
17217	47585	A	17322	577	735	
17218	47586	A	17323	337	642	
17219	47587	A	17324	2	653	
17220	47588	A	17325	2	935	
17221	47589	A	17326	532	729	
17222	47590	A	17327	1	675	
17223	47591	A	17328	1	684	
17224	47592	A	17329	2	641	
17225	47593	A	17330	1	808	
17226	47594	A	17331	562	675	
17227	47595	A	17332	2	1687	DTGNNEWKQQEGLSHNNWL LGCLFGPETPIFYPATLGHTSS YERKKEDKNGMKEEHDT MFFTLFNFQISVENIRKGP GESIAQSYLNVVQEIFRSR LLQDLTRDLCDNLKTC VMAETA VINHKKRKN NDLTEAAYSLSRDQKRML VDQIRKSDGTLQEH AKYAEIFGLTSAEASK KSFAGKEVVFYRPEE GYESFPWFIKQRSNLGV CGLLLCPAYPQHFAHGY GYPGRAGTLTGLHPMQV RQAPCMKSNNALIVILGT AVGIGLVMPVLPGLLRDI SIASHYGVLLALYALMQFL VLGALSDRFGRRPVLLAS TIDYAIMATTPVRGHSVL HKSVENLQPDNVIEKKIP FKPAEICKSNRELNVNHD ENVSRAQCRPLLQPLPSQ RRKNWFCGPGWSPFSVQ LVPCVPAAPALTKRGQGT VASEGGSPKPWQLPHGVE AQKSRAEVWEPFPRFQKM
17228	47596	B	17333	12	60	
17229	47597	B	17334	253	2103	

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17230	47598	A	17335	469	2512	PTSAYERGQRFASRLQMNLLLEY FLRWLMAKIFPQAPCMKSNNAL LIVILGTVTLDVAVGIGLVMPVL PGLLRDIVHSDSIASHYGVLLAL YALMQFLCAPVLGALSDRFGR RPVLLASLLGATIDYAIMATTP VLWIYPLVNVSKSDDTLKINGV EDHKTIFDGDGKTYQNVQQFID EGNYTSGDNHTLRDPHYVEDK GHKYLVEANTGTENGYQGEE SLFNKAYYGGGTNFFRKESQKL QQSAKKRDAELANGALGIIELN NDYTLKKVMKPLITSNTVTDEI ERANVFKMNGKWYLFDSRGS KMTIDGIKLNDIYMLGFVSNSL TGPYKPLNKTGLVLQMVLDPN DVTFTNFYLPGPQAKANMWLL QAHDKKSFRIKGTFGPAL
17231	47599	A	17336	2393	2945	
17232	47600	A	17337	980	1732	

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17233	47601	A	17338	1	2400	GRPFPRPPRLCQRRRLRGGGRMK MTGDFEECLKDSPRFRAALEEV EGDVAEELKLDKLVKLGAMI DTGKAFCVANKQFMNGIRDLA QYSSNDAVVETSLTKFSDSLQE MINFHTIL/L*PNSEINLRHSFSN FVKEDLRKFKDAKKQFEKVSE EKENALVKNAQVQRNKQHEVE EATNILTATRKCFRHIALDYVL QINVLSQSKRRSEILKSMLSFMY AHLÁFFHQGYDLFSÉLGPYMK DLGAQLDRLVGDAAKEKREME QKHSTIQKDFSRDDSKLKYNV DAANGIVMEGYLFKRASNAFK TWNRRWFSIQNNQVVYQKKFK DNPTVVVEDLRLCTVKHCEDIE RRFCFEVVSPTKSCMLQADSEK LRQAWIKAVQTSIATAYREKG DESEKLDKKSSPSTGSLDSGNE SKEKLLKGESALQRVQCIPGNA SCCDCGLADPRWASINLGITLCI ECSGIHRSLGVHFSKVRSLTLD WEPELLKLMCELGNVDVINRVY EANVEKMGIKKPQPGQRQEKE AYIRAKYVERKFVDKYSISLSPP EQQKKFVSKSSEKRLSISKFGP GDQVRASAQSSVRSNDSGIQSS SDDGRESLPSTVSANSLEYEPG ERQDSSMFLDSKHLNPGLQLYR ASYEKNLPKMAEALAHGADV WANSEENKATPLIQAVLGGSLV TCEFLQNGANVNQRDVQGRG
17234	47602	A	17339	1	782	
17235	47603	A	17340	1	475	
17236	47604	A	17341	1	852	
17237	47605	A	17342	432	696	
17238	47606	A	17343	3	296	ETEIEALKEELLFLKKNQEEV KGLQAQIAISGLTVEVDVPKSQ DLAKIMADIWAQ*DELEDGEDF SLRDALDSSNSMQTIRKTTTRPI VSGWQSGV
17239	47607	A	17344	2	292	SQKKGLVGALTLPNPPHFCPCHL *EVKGLQAQIASSGLTVEVDAP KSQDLAKIMADIRAQYDELAR KNREELDKYWSQQVREGKGM GCQGVGGRQTE
17240	47608	A	17345	1	908	

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17241	47609	A	17346	1	1452	TGPEFHDRLRVRRRPQSLSPVL LLSSPDSMSFTTRSTFSTNYRSL GSVQAPSYGAGPRRAARPASY AGAGGSGSRISVSRSTSFRGGM GSGSLATG\IAGG\LAGMG\GIQ NEKETMQSLNDRLASYLDRVR SLETENRRL\ESKIRE\HLEKKG PQ\VRDWSHYFK\IEDLRA\QIF\ ANTV\DNARIVL\Q\DNAPSCVR DDFR\VKY\ETELA\MRQSCWRT DIHGAPQGPFFDDTNYHTDLQL/ EKTEIRGSSRRELLFQ*RRNHEE /EKLKGLQAQIAQFLGLTRGRL DCPQIFRDLRQDSWADIRGPIID ELASEEPRGSLDKY\WSQQ\EE STTVVTTQFAEVEAAETTLTE LRRTVQSLE\DLDSMRNLKAS\ LENSLREG*RPAYALQ\MEQLN G\LLHLESELAQTRAEGQRQA QEYEALLNIKVKLEAEIATYRR LLEDGEDFNLGDALDSSNSMQ TIQKTTTRRIVDGKVVSETNDT
17242	47610	A	17347	467	843	
17243	47611	A	17348	114	1363	
17244	47612	A	17349	2	281	
17245	47613	A	17350	1	588	
17246	47614	A	17351	184	354	
17247	47615	C	17352	391	657	
17248	47616	A	17353	1	2010	
17249	47617	A	17354	2	443	VPDLPPSHRGFRAAQGGLPPKN KVAALPSWGSANQNSSARWEL VSPPIHRGGS*GPGETGDLDGSS IQRAVELRLVQAFVVPKSSLRD PSREGRGGWAG*VQTKGA*AR PTLLWAPKR/DRGGKAAPTSTW NSPKAGCPSARSSPAPP
17250	47618	A	17355	1	1359	
17251	47619	A	17356	260	380	
17252	47620	A	17357	153	273	
17253	47621	A	17358	270	484	AKYRGTGSSRKALGAHWVPKQ PIPAWQHKKDPSGGRPEEQGVKL YREKEFSS*TL*/RI*TGPDAWA YAWADAW
17254	47622	A	17359	2	941	
17255	47623	A	17360	1	615	
17256	47624	A	17361	911	1472	
17257	47625	A	17362	2	442	
17258	47626	B	17363	76	235	
17259	47627	A	17364	38	190	
17260	47628	A	17365	134	523	
17261	47629	B	17366	1	1776	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17262	47630	A	17367	394	554	
17263	47631	A	17368	22	831	
17264	47632	C	17369	1	1191	
17265	47633	A	17370	199	647	PSVPTEGSRNRTTAVAVEERQS DGSGSLSPGKLQTTTTGIIPALL HITGAPVSSDFRLDWLIERPKG GRRALSIRSLALPLPQHCGSD NDWIPLQLRLLSRASFHSDDDL GFGAYRRLALHILCIHSSKEALE LNTFQPVTFLNAFSK
17266	47634	A	17371	1	2697	
17267	47635	B	17372	25	1698	
17268	47636	A	17373	2	218	ASLRSSPFSRSLRCQGKNTPEERS GLPKALFCTKPSR\ADLGPAHG RRPLPSVQPG*AIPGRVSRGEKN LTNR
17269	47637	A	17374	2	2543	
17270	47638	A	17375	198	403	PQALREHSPSV*TGRQDRQLLF KDCTCQRQRDDVDSVQGRRL HISSPQGLNSFFAVSLKLEHNV KAE
17271	47639	A	17376	58	543	VLYRSSRMCRKIRVLISRPFSIV KICERVLSQTSQGRHDYAAAA VSKTGQKRIHSSGTRGSGAPHS PGWWEPSDRVGVSICFLFSLK YRLFSSCLVQPCLGPVLGNNSC SPEGPREPSPPSHGLGFPKMCT* TQVPASTTQSDNGQNHPNPGCP MPISPD
17272	47640	A	17377	14	701	
17273	47641	A	17378	91	309	GRKQFPHLATGKEGCVGGQRL PCVTVELIFFAPAGAAVPRRP*L PRTAPS*LHCLPVCRRMPGEAPT ARHAAWV
17274	47642	A	17379	2	2625	
17275	47643	A	17380	1	1752	
17276	47644	A	17381	3257	3412	
17277	47645	A	17382	1	1091	
17278	47646	A	17383	233	1148	
17279	47647	A	17384	1	1716	
17280	47648	C	17385	162	356	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17281	47649	A	17386	836	2106	AKKFRKRWPLEEQEQNPVDPGG AAPVTALRKRVTSQRCSLEFLE DAVGCAPAQRYTPPSAPSSSTTP LGLPLT/TCGARGSWEEKSDLC PLPCRTKHTSGSPRHKGLKKTH FIKNMRQYDTRNSRIVLICAKR SLCAAFSVLPYGEGLRISDLRV DSQKQRHPSGGVSVSSEMVFEL EGVELGADGKVVSyakFLYPT NALVTHKSDSHGLLPTRPSVP RTLPGSRHKPAPTKSAPASTEL GSDVGDITLEYNPNLLDDPQWP CGKHKRVLIFASYMTTVIEYVK PSDLKKDMNETFREKFPHVKLT LSKIRSLKREMRSLSEECSELPV TVAMAYVYFEKLVVQGLIKQ NRKLCAGACVLLAAKISSDLRK SGVTQLIDKLEERFRFNRRDLIG FEFTVLVALELALYLPENQVLP
17282	47650	A	17387	1	2531	
17283	47651	A	17388	1	1506	
17284	47652	A	17389	34	576	
17285	47653	A	17390	112	1840	EELRVREHVTGGICGGSQMMV DLLGATTLELVAVAPWVMSAA AGGKNLKSPhKVEVDIIDDNFI LRWNRSDSVGNVTFsFDYQK TGMDNWIKLsgcQNITSTKCNF SSLKLNvYEEIKLRIRAEKENTS SWYEVDsFTPFrKAQIGPPEVH LEAEDKAIVIHISPGTKDSVMW ALDGLSFTYSLliWKNSSGVEE RIENIYSRHkiYKLSPETTYCLK VKAALLTSWKIGVYSPVHCIKT TVENELPPPENIEVSVQNQNYV LKWDYTYANMTfQVQWLHAF LKRNPgnHLYKWKQIPDCENV KTTQCVFPQNVfQKGIYLLRVQ ASDGNNTsFWSEEIKFDTEIQAF LLPPVFNIrSLSDSFHIYIGAPKQ SGNTPVIQDYPLiYEIIFWENTS NAERKIIeKKTdVTPNLKPLT VYCVKARAHTMDEKLNKSSVF SDAVCEKTKPGNTSKiWLIVGI CIAFALPFViYAAKVFLRCINy VFFPSLKPSSSIDEYfSEQPLKNL LLSTSEEQIEKCFIENISTiATVE ETNQTDEDHKKYSSQTSQDSG NYSNEDESESKTSEELQQDFV
17286	47654	A	17391	3	373	

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17287	47655	A	17392	1	432	LPRFVGQQPRPLGPLRGSGSEG CRAPGEAVRAPDYAFPIPGTRA S/PLNRFPLGGTAWPQAHPTNP KPAPAPGAQLDDPPRYSRHGLS RWGLPLQSLVLLPPLQRPMLPQ AAPNTPWWPWTLRAGRREN AHAQRKLHLWAGKVE
17288	47656	A	17393	98	376	
17289	47657	A	17394	1	364	
17290	47658	A	17395	1	1230	
17291	47659	A	17396	892	2004	RRMSFMSSEVLVGEIMSPFDQS GLGA\EESLGLLDDYLAEVAKHF KPHGFSSDKAKAGLLPNGLA\A DGLVSPSNNSKE\DAFISGTDW DVGRKWVLKEFDGCPCLGIE* PWETIARLTFLTTFGIDICDSLLP P*FQGRLIKAAPPRRLNPIG\HLP QKFLTKPRGLAPFTFLQPL\PL SPGVLASSTPDSFPFSFRSWG*S*K WDIH*KGD*/RKPDYTA YVAMI PQCIKEVEDTPSD\NDSGICMSP ES\YLGSPQHSPSTARGSPNRS SPGVLCGSARPKPYDPPGEK AAVKGEKLDKLLKKMEQNK TAATRYRQKKRAEQEALTGEC KELEKKNEALKERADSLAKEIQ YLKDLIEEVRKARGKKRVP
17292	47660	A	17397	43	1300	DSCCIQGTMRSLRTQQRPGVEG SLKQHQRLLHSNFSSINESVFIVS FSLNTIGSGGRGAEGEP/GREPL SRPQPPAGPLGGALPAPP\SLMP QL*SE*GRLQLLYLLLQ/PAVC SCSRCSAPRSRCVARPAARTGL PTPAPASSP/CSRSLSSSRSLSSSC RVSCCHSLSSCCSLSCSRSSST SSRSSSTSSSSSLSSSLSCSSCRL SCSNSFSTSSSSSLSSSLSCSSC CLSCSNSFSTSSSSSLSSSLSCS SCRLSCSNSFSTSSSSSLCPGSFS CSHSLSSCSRSLSSCSHSLSSCSR SLSSCSHSLSSCSRSLSSCSHSL SCSRSLSSCSHSLSSCSRSLSSCS CSLSSCSRSLSSCSHSLSSCSHSL SSCSRSLSSCSCLSSCSRCLSSC CSLSSCSRSLSSCLFRRLNI
17293	47661	A	17398	288	574	

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17294	47662	A	17399	230	648	VIAPGLWMMAADIPRVTTPLSS LVQVPQEEDRQEEVTTMILED DSWVQEA VLQEDGPESEFPQS AGKGGPQEEVTRGPQGALGRL RELCRRWLRPEVHTKEQMLTM LPKEIQAWLQEH RPESSEAAAA LVEDLTQTL*DSWVQEA VLQE DGPESFPQSAGKGGPQEEVT RGPQGALGRLRELCRRWLRPE VHTKEQMLTMLPKEIQAWLQE HRPESSEAAAA LVEDLTQTL
17295	47663	A	17400	105	381	SSGFWPLRFPLDVIKAVSTIAVH EKEESLWPRVAVFSTLAP/ESPP WGEAPQSAGR*SGVPEDHVHL RYRGTLSLACSSRHHPAQLS HYKN
17296	47664	A	17401	1023	1915	
17297	47665	A	17402	3	277	QVLLQGALLLLITVAQAGRVLK LGVSREFQDLLILWGKETFRR/C PGPCSPALHLQPGSSIP/SSQQLL *YLAAEQPQLHRGPPRTPAPVS GAE
17298	47666	A	17403	3	299	
17299	47667	C	17404	46	398	
17300	47668	A	17405	171	403	GKNSTLQQFNLLHYSSITVAV NNPTLGNSVSVFPLYILFTGIHQ LVKVILRKLK*RFGLELASLSL LFLPPVSLF
17301	47669	A	17406	291	467	
17302	47670	A	17407	2	395	DHAYVFLGRTACYLMKAYRK VNPRVIFSSNTIETHPKDLLHSC DHPFAEKTQFTVSTLDDVKNSG SIRDNYCRTSEISAVHIDTECVS VMLQAGTPPLQVK*RKNFQQR KQG*KMKWDPDISNSMAEVL
17303	47671	A	17408	1	149	EKEIPGPWLLGAMRFRFCGLD CPDWVLAESTLAK\IPL*SCGCS AARY
17304	47672	A	17409	555	1156	QFYNKTPSRSECPNLLHHMRTE GPPGGVDQPDGHQAGWPPPEP AGQQRGRQSGCHLLQGGASPR PSCGTVHARACTPPASCPPCHR YRSHLQRGKWWPK/GLPQHTR LDHTEVLGAAEGSTVSAVPSAT RAARDHVRLQTRKCFCKGAL LLLITAAAGRVLFGQPQLLQF TGQGFAIDTVLGRTGEDETQHC HCGLHIA
17305	47673	A	17410	3	366	
17306	47674	A	17411	408	1702	
17307	47675	A	17412	1	2661	

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17308	47676	A	17413	2	2288	
17309	47677	A	17414	1	1992	MGDFNTPLSTLDRSMRQKVNK DIQELNSAVHQVDLIDIYRTLHP KSTEYTFFLAPHRTYSKIDHIVG SKALLSKCKRTEIIRNCLSDHSA IKLELRJNKLTQNCSTTWKLNN MLNDYWVHNEMKAEIKMFF ETNENKDTTYKNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQFKELEKQEQTTHSKASRRQE ITKIRAEELKEIETQKTLQKINESR SWFFEMISKIDRPLARLIKKKRE KNQIDTIKNDKGDIIIDPTEIQTT IREYYKHLAIAIKLENLEEMDKF PYTNTLPRLNEEEEIESLNRTITGS EIEAIIKSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEASIIIPKP/DVGSSS QGNQAGERNKGYSFRKRGSI VPVCR*YDCTFRKSHFLSPKSP* ADKQLQQSLRIQNQCAKITSPI HHQQTNRPNHE*TPHNCFKE NKIPRNPTYKGCEGPLQGELO TAQ*NKKGHKQMEEHSMMLMD RKNQYRENGHTAQGNLQIQCH PHQATNDLHRIKGNFYKVVHM EPKKSPHCQDTPKQKE*SWRH HAT*LQILQGYSNQNSMVLVP KQRYRPMEQNRALRNNTTHLQ QSDL*QT*QKEEMGKGFPI**M VLGKLASHM*KAETGSLLYIL
17310	47678	A	17415	1	1677	

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17311	47679	A	17416	1	2178	MGDFNTPLSTLGRSTRQKVNK DTQELNSALHQADLIDIYGLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNCLSDHR AIKLELRIKKLTQNRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDTFKAVC RGKFIALNAHKRKQERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKEKRE KNQIDATKNDKGDITDTPTEIQ TTIREYYKTLYANKLENLEEMD KLLDITYTLPRLNQEEVESLNRPI TGSEVVAINSLPTKNSPGPDGF TAKYYQRYKEELVPFLKLFQS TEKEGILPNSFYEASIIIPKGR DTTKKENFRPISLMNVDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNICKSINVIQHINRT KDKNHMIISIDA EKAFDKIQQPF MLKTLNKLVLVLARAIRQEKE IKGIQLGKEEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWIGRINIVKMAILPK VIYRFNAIPIKLPMFFTELEKTT LKFIWNQKRARITKSILSQKNK AGGITLPDLKLYYKAIVTKTA WYCYQNRDIDQWNRTEPSEIM
17312	47680	A	17417	1	1770	
17313	47681	A	17418	1	1101	
17314	47682	A	17419	1	1614	

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17315	47683	A	17420	1	1878	MVLALTGNKADLASKRPLEFQ EAQAYADDDSWLFMETSAGK AMNVNEIFMAIAEKLPKNKPQ NAAGAPDRNQGYLSACEFSGR KLPKQTTKHIKQSLRKLKGAS YASSNLIPRKLYEPPLVIPRKTG SGVDLQQTPDTDLQLWVLTVRR KSNKQKGYPHQNPICMLPSSKT KDFKPTKIKRDKDGHYIMVKG SIQQEELTVLNINAPNTGAPRFI KQALRDLQRDLDSHTIIMGDFN TPLSTLDRSTRQKVNKDIQELN SALHQADLIDIYRTLHPRSKDY TFFSAPHHTYSKIDHIVGSKALL AKCKRTEITRNCLSDHSAIKLEL RIKKLTQKCSTTWKLNNLLND YVWHNEMKAEIKMFFETNENQ DTTYQNLWDTFKA VCRGKFIA LNAHKRKQERSKIDILTSQKE LEKQEQTHSKASRRQEITKIRVE LKEIKTQKTLQKINESRSWLFE KINKIDRQLARLIKKKREKNQID AIKNDKGDITTDPTIEQTTIREY YKHL YAKKLENLEEMDKFLDT YTLPRLNQEEVESLNR PITGSEI EAIKSLPAKKSPGPDGFTAIFY QRCEKELAQFLLRLFSTEKEGI LPNSFYEDSIIL/ILPKPGRDTTK KENFRPISL
17316	47684	A	17421	1	1761	
17317	47685	A	17422	1	1875	
17318	47686	A	17423	1	1611	
17319	47687	A	17424	1	4539	
17320	47688	B	17425	1	6294	
17321	47689	A	17426	2	1913	
17322	47690	A	17427	1	1026	
17323	47691	A	17428	1	2112	

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17324	47692	A	17429	1	1884	MENGFDELREEGFRRSNYSELQ EEIQTGKGEVKNIEKNLDECITR IPNTEKCLKKLMELKTKARELR EECISLRSRCDQLEESVSVMED EMHEMKREGKFREKRIKRNEQ SLQEIWDYVKRPNLRLIGVPED RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELKIKKLTQ NFSTTWKLNLLNLLNDYWVHN KMKAIEKMFETNENKDTTYQ NLWDTFKAVCRGKFIALNAYK RKQERSKIDTLTSQLEKEKQE QTHSKASRRQEITKIRAELEIE TQKTLQKINESRSWFFERINKID RPLARLIKKKREKNQIDAICKND KGDITTDPTIEIQTIREYYKHL TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIVAIHSL PTKKSPGPDGFTAQFYQRYKEE L/RNKIPRNPTYKGCEGPLQGEL QTTAQGNKRGDKQMEEHSM MGRKNQYRENGHTAQGNLQIQ CHPHQATNDLHRIKGYFKV HMEPKKSPHRQVNPKEQSW RHHAT*FQIILQGYSNQNSMVL VPKORYRSMEQNRALRNATY LQLSDL*QT*EKQAI
17325	47693	A	17430	1	1695	
17326	47694	A	17431	1	3779	MELKTKARELREECRLSRRN QLEERVSADEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDAENGTKLEN TLQDIIQEDFPNLRQANVQIQE IQRTQRYSSRRATPRHIIVRFT KVEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQEEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE
17327	47695	A	17432	1	735	
17328	47696	A	17433	1	2541	
17329	47697	A	17434	1	1461	

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17330	47698	A	17435	2	429	AACAAAMSLVPEKFQHILRVL NTNIDGRRKIAFAITASSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSVNLLSNGLYL/VKG VGRRYAHVVLKADIDLTkra GELTEDEVERVITIMQNPRQYKI PDWFL
17331	47699	A	17436	1	615	
17332	47700	B	17437	264	556	
17333	47701	A	17438	1	406	FFFFLQKVGIYLIHKTQQHRL WVTSAAFLSLSSMAAVGTSSSL SENSGPGHGGKQTF*GP/EGTDI PEGRHHFSAQAFSVVAGRGTa AALLHGSHVPQGR\SRIGSRSGG PPSHPDTCSSSHSAGRSCPHSC TG
17334	47702	A	17439	3	3484	
17335	47703	B	17440	42	367	
17336	47704	B	17441	203	382	
17337	47705	A	17442	22	266	YRDLPHFLLNSDLIFNMSTSLRE TMILIRTLRVPL/PLHGVIQPIs KIQGLVLNALNQVQESIFQVSF NLFPDAFQHVIRA
17338	47706	A	17443	1	1137	
17339	47707	A	17444	1218	1482	QSPWPSSLRGDVSITPNLIFSCL SIGWPFCLV/SFC*PKK*TFQGV GSEVYDVKHFASCVLCHKQMN KLNLYFRNTYFVALLSTELFEN
17340	47708	A	17445	2	377	
17341	47709	A	17446	1	211	
17342	47710	A	17447	2	732	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLFAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAQ DLVHFSSPGTLVVQYMDDLlL ATSEASCQQATLDLLNFLANQ GCKRVGIALGVLTQTHGTTQP VAYLSKETDVAAGPLTAlLL LAFGPCIFNLLVKLVSSRIDAIK LQMVLMQEPQMSSTNNFYRGP

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17343	47711	A	17448	1	3003	MPGAQDLQPTMPEPPHPQWAP TWPEPPRRVPPPAPRRPVPLTA QGLSVDQSKLGKFSDDPDYID VLQGLGQTFDLTWRDVMLLLD QTLAFNEKNAALAAAREFKDT WYLSQVNDRMTAEERDKFPSC QQA VPSMDPHWDLSDYGDW SHKYLLTCVLEGLRRIRKKPMN YSMMSTITQGKEENPAFLEQL WEALRKYIPLSPKSLEGQLILKD KFITQSAADIRGKLQKQSLVPE QNLEALLNLATSVFYNRDQ
17344	47712	A	17449	5	624	IQPILAYPHPKTLKQLWGFLGIT /GFCPVWIPRCSKIAKSLYTLIKE TQRANTHLVEWEPEAETAFTK LKQALVQAPTLSLPTGENFSLY VTERAGIALGVLTQTRGTTQP VTYLKDGEPMKCDCCQIIVQTY ATQDDLLEVPLANPDNLNLYTD GSSFVENGIRRAGYAIVSDVTIL ESKPLPPGTSQAELVALTRA LELGKGKE
17345	47713	A	17450	636	2628	SNDRTEDDCGKHPFMSSPP(TEP WVCLIIEGQEIDFLDGTTFSTV LIPCLGRLSSRSVTIQILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVPPEAEW FTVLDLKD
17346	47714	A	17451	2	568	CSSPSN/TILGVQKLNSQWRLA QDFRLINEAVIPLYPVVPNPYTL LSQIPEEAESFTVLDLKDAFFCIP LHSDSQFLAFEDPTDHNSQLT WMVLPQGFRDSPHLFGQAQAAQ DLVHFSSPGTLVVQYMDDLIL ATSSEASCQQA TLNLLNLANQ GCKRVGIALGVLTQTHGTTQP VAYLSKETDVAAK

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17347	47715	A	17452	254	849	LQPESLEIAGILVQ*MIE*QPKK GTNSIPVSKPSP/GVQKPNGQW RQVQDLRLISDAVIPLYPVSNP YTLLSQILEEAEWFTVLDLKDA FFCIPLRSDSQFLAFEDPTDHT SQLTWTVFTQGFMPTPHLFGQ SLAQDLGHFSSPGTLVLQYVDD LLAKQQA TL DLLNFLANQGY KLSKLK AQLCELLVFSSCARMH
17348	47716	A	17453	1	369	
17349	47717	A	17454	1	1632	
17350	47718	A	17455	636	1837	SNDRTEDDCGKHPFMSSPPATEP WVCLIEGQEIDFLDTGTTFSV LIPCLGRLSSRSVTIQILGQPV RYFSHLLSCNWETLLFSHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKDAFFCIPLHSDSQFL AFEDPTDHTSQLMWMVLPQRF RDSPHLFGQAQAQDLGHFSSPG TLVLQYSEIAKTLYTLIKEMER ANTHLVEWEPEAETA FETLKQ ALVQAPALS LPTGQNFALYVIE RAGIALGVLTQTHRTPQPVAY
17351	47719	A	17456	2	52	EISFVENGIQRAGYAIVSDVTVL ESKPLLPGTSAQLAELVALTRA FELGKGKRINANTDSKYAYLIL HALAAIWKEREFLISGGTPIKYH KEIMELLHAMQKPKEVA VLHC QSHQKG*EWDTKGR LCHS
17352	47720	A	17457	1625	2505	PGVQKP/GQWRLVQDLRLINEA VIPLYPVVPKPYTLFSQIPKEAE SFTVLDLKDAFFCIPLHSDSQFL FAFEDPTDHTSQLTWTVLPQRF RDSPHLFGQALVQDLGHFSSPG TLVLQFVDDLLAASSEASCQQ ATRDLLNFLANQGYKASKSKA QLCLQQVKYLGLILARGTRALS KKRIQPILAYPRPKTLKQLRGFL GITSFCRLQIPGYSKMARPLYTL IKETQRANTHLVEWEPEAETA F KSLKQALVQAPALS LPTQNF LYVRERAGIALEVL TQTHGTTL QPVAKG
17353	47721	A	17458	1	2415	

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17354	47722	A	17459	2646	5167	KNSGHILGTCPGYRYAKGKET GKEIKGPQNPPGYRLCPLQAV GGGEFGPTQVHVPFSLSDLKQI RVDLGKFSDDPDRQYPLRPEAH EGLQDILRYLKVQGLVRKCSSP CNTRILGVQKPKGQWRLVQDL RFINEAVIPLHSVVPNSYTLLSQI PEEVEWFTVLDLKDAFFCIPLH SVCQFLFAFEDPTDHTSQFTWT VLPQGFRDSPHLFGQILAQDLG HFSSPGTLVLQYVDDLLLATSL EASCQQATLDLLNLLANQGYK ASKPKAQLCLQQVKYLDLSLA RVTRALSKERIQPILACPRPKTL KQLRGFLGITNFCQLWIPGYSE MARPLYTLIKETQRANSHLVER EREAEAFKTLKQALVQALALS LPTGQNFSLYARERAGIALGILT QTHGTTQPVTYLRKLIYSFVE NGMRRAGYAIVSDVTVPEKPL PPGTSTQLAELVVLTALELRK KKRINVNTDSKYAYLILHAHAA IWKEREFLTSGGTPNKYHKEIM ELLHAVQKPKEVAVIPCQSHQK GEEK/EAEGNRRADA EVAKIAA RRNLPTEIPMEGPLVWNNPVQE IKPQYSLTKTEWGLSQGHSFLP LGWLTTLLEGKAGRATPNPRNV YFPLHLRGLRTGRLPLSQSTRA QEMTLVRPRPSSSPPEKAAEG RGRRCSETKLRRHRLFRPLRTP LCATAPLAASVA AVLAAAPAA
17355	47723	B	17460	1	2208	
17356	47724	A	17461	2	168	
17357	47725	A	17462	890	1034	
17358	47726	A	17463	386	619	TFITGDCLGTKN/HIFDGCGLVLS EVGLVLDCSNQRFKAGPA*LCQ SPFKNIL*ESLPMCMCRQLEKH AHPQGLCHTQVT

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17359	47727	A	17464	123	2169	DLGHRGSREMASVA\LEDVAV NFTREEWALLGPCQKNLYKDV MQETIRNLDCVGMKWKDQNE DQYRYPRKNLRCRMLERFVES KDGTQCGTSSQIQDSIVTKNT LPGS/VGPYESRMSGEVIMGHSS LNCYIRVGAGHKPHEYHECGE KPDTHKQRGKAFSYHNSFQTH ERLHTGKKPYDCKEKGKSFSSL GNLQRHMAVQRGDGPYKCKL CGK\FFWPSLLHMH\ERTHTGE KPYECKQCSKAFSFYSSYL RHE RTHTEKPYECKQCSKAFFYS SYLRHERHTHTGEKPYKCKQCS KAFFDSSSLIHERTHTGEKPYT CKQCGKAFSVSGSLQRHETTHS AEKPYACQCGKAFHHLGSFQ RHMIRHTGNPHKCKICGKGF DCPSSLQSHERTHTGEKPYECK QCGKALSHRSSFRSHMIMHTG DGPBKCKVCGKAFVYPSVFQR HERHTAEKPYKCKQCGKAYR ISSSLRRHETHTHTGEKPYKCTLG KAFIDFCSFQNHKTTHTEKPY ECKECKGAFSRFRYLSRHKRTH TGEKPYECKTCRKAFGHYDNL KVHERIHSGEKPYECKECKGAF SWLTCFLRHERIHMREKSYECP QCGKAFTHSRFLQGHEKTHTG ENPYECKECKGAFASLSSLHRH KKTHWKKTHTGENPYECKECKG KAFASLSSLHRHKKTHWKKTH
17360	47728	A	17465	1	1317	
17361	47729	A	17466	1	336	
17362	47730	C	17467	51	353	
17363	47731	A	17468	190	348	YAIHIMDVHTVRSLYYFNCFRY *ACYCCHYLTDIPEITKLSGCSY GGTSLIWG
17364	47732	A	17469	1	1716	
17365	47733	A	17470	1	840	
17366	47734	A	17471	699	1283	LLTARLTWVSARLMSYVLLMC *LFPRLLSCLTPPHCSFSICFVI C/FKNVDLKGFEVDVRILLTKYS NSNGSQSPWMEEQIRDAGERV HSAFSLNWGKPLVFEKDRPYSV SVFIGLFLPMAEKTGPLKGNPG GEFLLFLRQIQLVWLPAAAGIMT EHYFPITATQALEINNAISTIMEI FPTVSFASQWITASFSV
17367	47735	A	17472	300	461	
17368	47736	A	17473	1	2451	

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17369	47737	A	17474	2	3542	
17370	47738	A	17475	1	1156	
17371	47739	A	17476	1	1176	
17372	47740	A	17477	1	257	
17373	47741	A	17478	295	1353	
17374	47742	A	17479	3	1772	
17375	47743	A	17480	2	284	
17376	47744	A	17481	1	141	
17377	47745	A	17482	1	506	PHSPLWKTLCSPSSGVCCGFVT LFCNDRFACLFQLTPPPSPAWM TAAASLLASLLPALPPLNLQDA KFVEERRKQLQNYLRTVMNKV IQMVPEFAASPKKETLIQLMPFF VMGLQVGMVGLFHFGVMMMDQ PQPSLTRADESPCDRVLSPCAA HRKQRDCCLSWKAEPE*FLVK* KTLCSPSSGVCCGFVTLCNDR FACLFQLTPPPSPAWMTAAASL LASLLPALPPLNLQDAKFVEER RKQLQNYLRTVMNKKVIQMVPE FAASPKKETLIQLMPFFVMGLQ VGMVGLFHFGVMMMDQPQPSLT RADESPCDRVLSPCAAHRKQR DCCLSWKAEPE
17378	47746	A	17483	1	741	
17379	47747	A	17484	1	993	
17380	47748	B	17485	277	416	

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17381	47749	A	17486	686	2400	TGMSVDEKPDSPMYVYESTVH CTNILLGLNDQRKKDILCDVTLI VERKEFRAHRAVLAACSEYFW QALVGQTKNDLVVSLPEEVTA RGFGPLLQFAYTAKLLLSRENI REVIRCAEFLRMHNLNEDSCFSF LQTQLLNSEDGLFVCRKDAAC QRPHEDCENSAGEEEDEEETM DSETAKMACPRDQMLPEPISFE AAAIRVAEKEEALLPEPDVPTD TKESSEKDALTYQYPRYKKYQL ACTKNVYNASSHSTSGFASTFR EDNSSNSLKPGLARGQIKSEPPS EENEEESITLCLSGDEPDAKDR AGDVEMDRKQPSAPTPTAPA GLCLERSRS/GNYGQPH/VGQK EVSNFTMGS/PLRGPGLALCK QEGELDRRSVIFSSSACDQVSTS VHSYSGGARFLATEHQEPGLM GDGMYNQVRPQIKCEQSYGTN SSDESGSFSEADSESCPVQDRG QETGSTSDLRLSTKLQSCSGPM FKGPTATVAATESWGTVLQNIP LGCAGTGEEVITYTNPPPRGRAA LVPRSPLTVYSSSLPEHQTSLKQ CAQAGPGVCLLVHNHWQLLEG
17382	47750	A	17487	1	1089	
17383	47751	C	17488	295	348	
17384	47752	A	17489	1	711	
17385	47753	A	17490	1	1248	
17386	47754	A	17491	135	259	
17387	47755	A	17492	434	506	
17388	47756	A	17493	3	227	
17389	47757	C	17494	3	236	
17390	47758	C	17495	25	153	

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17391	47759	A	17496	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRKLSQRTPRGEVE SVTDGEKTDGSWRMTVDYCKL NQVVTPIAAAVPDVVSLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTDLLVRHLCATGWEINPT KIQGSSTSVKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRRKYIPYLGVLCC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGPYPDPAGP MVLEIAVADTEAVWGH/WHSA SFSPHPCCHCPMGP*TKWP*WQG WRLCMGSATWTSTHEG*PGYG HQ*VPNLPAAEETNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AE\HLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATTRQNNISIK L*VKIATWTLWAPPTSKL
17392	47760	A	17497	2	1120	PSKVKEKLLHLAPPTIKKEAQR LVGQLGFWRQHIFHLGALLWLI YQATQKAASFEWGPEQEKALQ QVQVAVQAALPLGPYPDPADPM VLEVSVADRDVWSLWQAPIG ESQQRPLGFWSKALPSSTDNYS/ CFRCAIHY*FMGCCQ*FGWIVRD LEEA*LENW*QRNLGKRYVDG PL*VVKNWKDICIPCECPTGDL SRGGF**SSG*DDPFCGHHSASF PSHPCCRPMGP*TKWPWWQE* RLCMDSATWTSTHQS*PDYSH C*VPNLPAAEETNTETSIWHHFS G*SASYLLAG*LH*TSSIMEKAE VSPHWKHSLLWIWVCLSSMQC FCQDYHPWTHSMPYPLSWYST QHCLSLQRERHSLYR*RSAAVG ACS
17393	47761	A	17498	1	1908	
17394	47762	A	17499	1	915	
17395	47763	A	17500	2	670	
17396	47764	A	17501	1	1332	
17397	47765	A	17503	151	674	
17398	47766	A	17504	1	825	
17399	47767	A	17505	134	447	
17400	47768	A	17506	98	778	

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17401	47769	A	17507	1	830	MHCCFFISAAWFCLWSISLHLV ERPDMAVLLFPFGLRLGLMLQ CPRGYWPVLLGAEWLLIYWLT QAVGLTHFLLMIGSLLTLLPV ALISRYRHQRDWRTLLQGA LTAAALLQSLPWLRHGKESWN ALLLTLTG/EPDAGPDMSGVLA LSRQ*HLAAARSVTGFSANQLA RATSGLVLAAVCYQSLAPVGIA GRTVALYAILSGAADYRAGLA LWLARGADCDVDERHRADRH QSWRDLPWTYCSGDCDSRHGA QGQKARAPPKHDQFPHAIFRG
17402	47770	A	17508	2252	2772	RSKTTAFTPLRVRTSAHARPAG PAPIATFLPVCFTPDISGRQPISN ALSLI*RSMLPMVTAPNSSFRV QEPS/SQTVLRADSSANFRQGV GLVRQFRRFKNTPLVGELQPVR DVVVYRAFPLAVWVAARQAA VSLRFGLAFGKRLVNFNKLNFA DLQRFLWRINALQVDKLIIF
17403	47771	A	17509	539	1077	
17404	47772	C	17510	192	396	
17405	47773	C	17511	10	294	
17406	47774	A	17512	2	379	KRPGSGITEATSSRRQRPTRLQ GQLPGQEKRVLKATEGIANPS WGWGGAVSPLRASLTSLRHKI NNHYNTENWKLPIKDSHLIPSP QAPSMPPPLANPPWAPHPREK MWNPQIQGTNCIWVCGP
17407	47775	A	17513	291	590	
17408	47776	A	17514	187	589	VLSFLIHRWEGDKDSLLGPNFS QTPQPSRRFICAFPWENPS*EPS YPSISDPGFLILLPSKGDVWIHL GPIFSKKPLYS*SSFLVIFYPVTP SFLFLGYKFPLAHAVFRVEPTLS LLIQNSHCHGCYTPDGPE
17409	47777	A	17515	1509	1748	IGVVREGIPVLCFLFSKGMLPVF AHSV*YWLWVCHR*LLLF*DT HQYLIY*EFLA*SVVDFCQRPFL HLVLDFFWLVS
17410	47778	A	17516	152	568	CQLELSCKMCPSTPVGRSLPVG CTRSGTQLRWHSVPWQSWCTV LGESLLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMTIF KILILPIHEHGMFFSLSVSSFVSL

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17411	47779	A	17517	152	568	CQELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESELLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGMPLGSMITF KILILPIHEHGMFFSLSVSSFVSL
17412	47780	A	17518	152	479	CQELSCMKCPSTPVGRSLPVG CTRSQTQLRWHSVPWQSWCTV LGESELLSGLVVLFRASRPE**NP LKLLPQLPLPPDALSQGDGSFV CKHPTGAVTFPSGCPTHTLQA...
17413	47781	A	17519	1	474	
17414	47782	A	17520	1326	1712	FLYVIKALGKKQLQFGQQILIPS IELLDYLINPGSGCVSLWKLNK PQYCYLIHFSGLTELSWKVHTIL LEGHYEFLEYAADR*PICLFSW KERQLVSFLDYSLLHLLGSFYV VFFFFLYLLVRLCWDL
17415	47783	A	17521	18	236	
17416	47784	A	17522	281	1005	TGWSPLQLSKATVARLPLWIPP LWAGHLGELWLASGEYPSGLK LPEEGTGSNLRCSAASAGDTQA NRVWSGPAANFSRPAEPAF HALRGPVHCSPLCVHEFSSFS LISENMQYLVFCSGVRFLRIMVI SSIHILCLVPKRTRVLGRLSLTC FRFLRGPKPRITIPHSSAPPLGH VIAIPL*SFMKPSPEADAPMTG SFLKSPSEADTGATLPVQSVVPI PLSILPILEVGGVLFT
17417	47785	A	17523	1	1524	
17418	47786	A	17524	881	1108	SRKMGAPNA**SAWSWSREGL AAP*SMFSSLSADSSADCKLPE GKVQPASSTGLTARASKDLYFC CCFSISARAS
17419	47787	C	17525	1	867	
17420	47788	A	17526	203	514	SSSTARPSQTSSAEESPTSWYRG DNPSKPMPLVAGVFVGAIVGA ASVLGNAPLDGIETGCGAWSST NAEHTGLWLQILRKEGLKDL*N GTVPRLGRTWASPWM

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17421	47789	A	17527	1	1578	MAKKEQLLSAAPSKTNAEGQEI PSGVYTTRALGFKHKTGQPFQ TPSYPQEFILYTNDTNASKTE PFTPLERGLKPGSQESSGWHLV GTPLGRSFQRKEQAAIFAVLQP PLVIPRQTGSGVDLQQTPTDLQ KRVLTVRRKTN SININKD DHA KTTSKGHQQRPKVDKSTKMR KNQCKKATNSKNQNVSSPKD HNSSTAKEQNW MENEFDKLTE VGFRSSQFDQVEERISDIEDKLN EIKHEDKIREKRMKKKEQSLQE IWEYVKRPNLRLIGVPESDGEN GTKLENTLQDTIQENFPNARQ ANIQIEIQRTTPQRYSSRRATPR HII/E*IHQG*NEGKTVKGSQRE K*GQEIPSGVYTTRALGFKHKT GQPFQTPSYPQEFILYTNDTN NASKTEPFTPLERGLKPGSQESS GWHLVGTPLGRSFQRKEQAAIF AVLQPPLVIPRQTGSGVDLQQT PTDLQKRVLTVRRKTN SININK KDDHAKTTSKGHQQRPKVDK STKMRKNQCKKATNSKNQNV SPPKDHNSSTAKEQNW MENEF DKLTEVGFRSSQFDQVEERISDI EDKLNEIKHEDKIREKRMKKKE QSLQEIWEYVKRPNLRLIGVPE SDGENGTKLENTLQDTIQENFP NARQANIQIEIQRTTPQRYSSR RATPRHIIGRFTKVEMKEKRLR AVREKSRVTHKGKLI RL TADLS
17422	47790	A	17528	738	1323	ATGGHSNQRQRS*KLSKKFRR MYN*NNQYREVLKGADGAEN QGSRTTETLCM*RMQSLQFAD SDLVRHQKHSGEKPYECCEC GKAFRGSSELIRHRIHTGEKPY ECGEYKSYECIACGKAFRSST LIENQRIHTGEKPYECNECGKSF NQSSALTQHRIHTGEKPYECS ECRKTFRHRSGLMQHQRTHTR
17423	47791	A	17529	1	656	MAGKPEYDKTISTSIVLNALNA LGVSAEASGRNDLVVKTVEGD RKVSGSAYRETKDRGFHHGTL LLNADLSRLANYLNPDKKKLA AKGITSVRSRVTNLTLLPGITH EQVCEAITEAFFAHYGERVEAE IISPKNKTPDLNFAETFARQSSW EWNFGQAPAFSHLLDERFTWG GVELHFDV/GKRPYHPRPGVYR QPQPRAAGSPRRTTARLPFLSL

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17424	47792	A	17530	1046	1401	LLDIRMLCHGKGVIIHVLRLQF LLGRPAPHRLHAALQLPGLSLH GTLALGLWLQLRQLLLLGQPF GISGCGSGCDPEQDCV/DCGRG CWPRKCPQGSHSAPSRGAPHR PRPQQRAGGRQ
17425	47793	A	17531	112	1170	YPFFHLIDSTIDTCVCFTKFLCC VFQLHQVIYVLL*TGYSLIFDAD DLWMGFLRGHPFC*CYCFLFVS FPSNSQAPLLQVCWSLLEVHSR PCSPGYHQRRLLQNSKDCCLLLP LEALSQSGTHQMPAGALLYEM SVNPCWEEHQTDQLFTHESTFI RSKTQKKVPDKLLDSSTVTPLF KITENIGCVMTGMTADSRSQVQ RARYEAAWVKYKYGYEIPVD MLCKRIADISQVYTRNAEMRPL GCCMILIGIDEEQGPQVCKCDP AGYYCGCKATAVGVKQTESTS FLEKKVKKKFDWTFEQTLETAI TCLSTVLSIDFKPSEIEVGVTV ENPKFRILTEAEIDAHLVALAER
17426	47794	A	17532	2244	2432	DGQQIALHRLALRELQQAVH AGIAPAGENPV*WFRNRQNP LIALRSLPAFQSGNLSCQLH
17427	47795	A	17533	251	546	SSISDILSSA*SIRLLILVYAS*SS RAVFFSTIRSFIFSKLVILVSPSC NLLSRFLASFHWVRTCSFSSKEF VIITHLLPTSVNSSYSSLFSFVHF G
17428	47796	A	17534	597	1092	FTNQKESRTRWIHSRILPEVQG GTGTIPSETIPINRKRGNPP*LIL* GQRHSDTKAGRDTTKKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIQGMQGWFNIR K/CNKCNPAYKQSQRQK/HT*L SQ*MQKKPLTKFNNPSC*KLSIN *VLVGRISK
17429	47797	A	17535	1	2153	
17430	47798	A	17536	2164	2427	
17431	47799	A	17537	1	322	GPRWGPVRVHRAPDPVRIPSSGP LLPPRFYPRYVLPSPSASTSRPC QRTSASGRCPCPMH/DTVKATM PIWV/DPPVPDHYEGEAHQGIL VTHPHHQRCPAGHRHRVVF
17432	47800	A	17538	1	627	

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17433	47801	A	17539	583	1145	GNGRTVDTQVCQAPITSQSLE PADPNPGEQDAEAGPASRRDT EAERLRFQFQYHVASGPHLA VGQLWTLCRQWLRPEARSKEQ MLEVLVLEQFLGALPSKMRTW VQSQGPRSCREAAASLVEDLTQ MCQQEGLAAHPSHDTAIRGIPR LAASWETASAMEATADARQKR THTEKEAWLLEAPHELA
17434	47802	A	17540	1	1301	
17435	47803	A	17541	1	1232	
17436	47804	A	17542	1	549	MNTANVEKPYVQKYQTAFVLV MKHRQCQLASHLVQNYRS/IQL WAWEKIQDPGTTCP SFNTITQG SKKPYPDFVARLRDAAQNSITD ENARKVIVELMAYGNANPECQ SATKPLKGKVPTGSDVISDQKA VG VQAAKRRNRDTDTGLGRSAR KSGKGVTRMLPKHASMILDGG GPATSPSCCRFL
17437	47805	A	17543	146	510	SPYWNKGKSPGWLAESFKRPV FRQGAK\EPYPDFAASLQDAAQ KSITNENARKVIVELMAYENAN PECQSAIKPLKGKVPVGS DVISR GFQGGQPPLSQVLQGMGQLPQ YSNCPRPQAAVQQ
17438	47806	A	17544	2	828	
17439	47807	A	17545	1	420	
17440	47808	A	17546	1	1947	
17441	47809	A	17547	1	399	PLKVNIYPDSKYAFHILHHHER GFLT TQGSSIINASLIKTLKAA LLPKEARVIHCKGHQRASDPIA QDNAHTDKIAKKAASIPTYTPH FQFFSFSSATPTYSPAETSTYQS LPTQGWFLDKETYFLPASQ
17442	47810	A	17548	1	2382	

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17443	47811	A	17549	1	2194	MAPEQGRVSILQTLFIEYHGYSI FVVKGDLPDCEADQLLQMIRV QQMHRPKLIGEELAQLKEQRV HKTDLERVLEANDGSGMLDED EEDLQRALALSREQIDMEDEEA DLRRAIQLSMQGSRRNISQDMT QTSGTNLTSEELRKREAYFEK QQQKQQQQQQQQQQGDLSGQ SSHPCERPATSSGALGSDLALLL TQSLFGSLFTWTRVTFGAEDPG QEDSFRRRVPCPCPHSVRRSTY DLGSSDQPAQGTSHFQIGLLL TRLSQVPILPQPPVPHIILLSPPP HTVSGLQFLSVTSPPLPAQQFLL KEVAGAEGIAKVIPTCPVPLLG QDILTKLSASLIIPGLQPHLIATL LPNPKPPSPLPLVSPNLNPQVW DTSTPSLATDQTPITIPKPNHP YLAQCHYSIPQLALRGLKPVIT RLLQHGLLKPINSSYNPILPVQ KPDKSYRLPQDLDLINQIVLPIH PVASPHIIPDTPDPHDCISLIHL AFTPFPHTSFFPIPHPDHTWFID GSSTWPNRHSPAKVGYAIVVSS TSILEATALPPSTTSQQAELIALT RALALAKGLHVNIYTDSKYAF HILHHNAVIWAERGFLSTQRSSI IIASLIKTLKAAALLPKEAGVIH CKGHQKASDPQAQGNAYADKS DNGLAFTSQI/HKQFLRLLVFS GTFIPLTVLNLQERTGQYFYLLP FTELEPVLEKLQGTVHLNFYMD
17444	47812	A	17550	1	355	
17445	47813	C	17551	99	335	
17446	47814	A	17552	21	447	LGPLPFSLSPCCLHCQGKRLCG HHEEARRRKNVSIPRKEAGIIHC KGHQK/A/SDPIAQGNAYADKT KFLDLAFPPRLSFTCQITQAVS QALGIQWNLHTLTILNLQKRIR ACPQDATGYSPFELLYGCSFLL GPSLIPDTSPT
17447	47815	A	17553	119	239	TQKGQRAALFLICILSPSPLPTL GKNFKN*IPALKPHNRI
17448	47816	A	17554	1	798	
17449	47817	B	17555	460	1059	

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17450	47818	A	17556	3	1476	IPTCPVPLLGGDILTKLSASLIIP GLQPHLIATLLPNPKPPSPPLPLV SPNLNPQVWDTSTPSLATDQTP ITIPLKPNHPYLAQCHYSISIPLA LRGLKPVITRLLQHGLLKPINSS YNSPILPVQKPKDSYRLPQDLD LINQIVLPIHPVASPHIIPDTTTPDP HDCISLIHLAFTFPHTSFFPIPH DHTWFIDGSSTWPNRHSPAKV GYAIVVSSTSILEATALPPSTTS QQAELIAETRALALAKGLHVNI YTDSKYAFHILHHNAVIWAER GFLSTQRSSIIASLIKTLKAAAL LPKEAGVIHCKGHQKIASDPIA QDNAAYADKLAKKAASVPTSVP HGISQAPPPLPTHQARYWQIDF THMPRVRLKYLWVVDFTFTG WVEAFPTGSKKATAVISSLLSDI IPQFSLPTSIHSDSRLAFISQITQA VSQALGIQWNLHISYRPQSSGK VEQTNGLLKTHLTKLSLQLKK DWTVLLPLALLRIRACP
17451	47819	A	17557	24	594	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQTDQPKEHLTNFKS GCSSPGPARSQFFLSRLSSTL*SF YHLPSSHLVCLTVSFRD*PSPTC PAIDS*KGG/CELKA/RVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAPYHV RSACFPFAFCHDCQFPEASPEAE AAAILSVQPAEP
17452	47820	A	17558	1	1152	
17453	47821	C	17559	301	462	
17454	47822	A	17560	1	423	
17455	47823	A	17561	421	856	KLINLFSNFCSYSRQFLSFSSSTL YFVWVFCYNRCCFSK*RMIVHI TNRDINCQIAYARIEGDMIVCA AYAHELPHYGVKVGLTNYAAT YCTGLLLAHRLNRFMGMDKIC YLDAGLARTTTGNKVFGDLDG GLSIPQSTK*FPGYD

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17456	47824	A	17562	3	1082	GPLCIALALQEFGTRRRWACRS LSSSGRRSLFRRMGSVKAVKNK AYFKRYQVKFRRRREGKT\DY ARKR\LVIQDKNKYNTPKY\RM V\RV\TNRD\INCQMLYA\RR IEGD MIVCAAYCTPNLPKIWV*RVGL TNY\AAAAY\CTGLLL\ARRLLP* /RFGMDKIYEGQV\ELTGDEYNV ESIDGQPGLPPAYL\ DAGPCSE PTHWPLKFFGAPEGKLWMGGL SIPSQYPNRF\GYDSEKQRNFN AE\VHRKAHSWGQNCCRFTWR YF\MEED\EDAYKK\QFS\QYIK\ NSVT\PDMMEMEY\KKAHA AI REN PVLWKR RPK\KEV\KKKRW NRPKMS\LAQ\KKDRVAQKKAS FLQSSRSGLLESLTPAIFP
17457	47825	A	17563	2	4967	
17458	47826	A	17564	56	284	RQTRRAAGIVRGDCPASSPTNC DLGQC/NSTS/LEPRFVQTVHLL CPWT/GGSSPLLAARGSLPVSL LGPLKPMVSCAGR
17459	47827	A	17565	1	3525	
17460	47828	B	17566	35	3691	
17461	47829	B	17567	80	3787	
17462	47830	A	17568	225	507	
17463	47831	A	17569	2	2621	
17464	47832	A	17570	14	1658	
17465	47833	A	17571	1	3654	
17466	47834	B	17572	1	3570	
17467	47835	A	17573	1	3663	

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17468	47836	A	17574	485	2347	TEPKTKTT*LSQ*MQKRPLTKF NNTSC*KLSIN/IVLEVLARAIQ EKEIKGIQLGKEEVKVSLFADD MIVYLENPTVSAQNLLKLIGNF SKVSGYKINVQKSQAFLYTNNR QTERQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENNKPLLKEV KEDTNEWKNIPCSWVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELEKTTLKFIWNQKRACIAKSI FSQKNKAGGITLPDFKLYYKAT VTKTAWYWYQNRDIAQWNRT EPSEIMLHIYNYLIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KVKLDPFLTPTKMNRSRWIKD LNVRPKTIKTLEENLGITIQDIG VGKDFMSKTPKAMATKAKIDK WDLIKLKSFCTAKETTIRVNRQ PTTWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDV NRHFSKEDIYAAKHKMKCSS SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRKIQ/GGIWCDRIL* R*TTCRVAKIQLS*RRI/WKRL QRTLSIPVLDAV*PPMF*ASVID TMTI*CFEARDTCFTLTLESFWD MHRCLAASKGIGLLC*PLIWH MSLMGVKSPPFVFSCLWTSVAV
17469	47837	B	17575	1	3354	
17470	47838	A	17576	1	3297	

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17471	47839	A	17577	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAAEEVESLNRPTGAEI GAINSLPTKKSPGPDGFTAIFY QRYKEELVPFLKLFQSIEKEEI LPNSFYEAIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLIGDGTFFKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLNFILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIHKSGNN
17472	47840	A	17578	1	3514	MELKTKARELREECRSLRSRCD QLEERVSAEDEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTQPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTFFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLLNDYW
17473	47841	A	17579	1	3693	

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17474	47842	A	17580	1577	3354	TEPKTKTT*LSQ*MQKRPLTKF NNLSC*KLSIN/IVLEVLARAIKQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCS WVGRINIVK MAILPKVIYRFNAIPIKLPMTFF TELGKTALKFIWNQKRARITKSI LSQKNKAGGITLPDFQLYCKAT VTKTAWFPGDVGLEADFSPSH TLKTQFFSCLAEFAAASCFFQR MNGFGMAMTTTSTGAAESPL PSCSIDQGDDTKLHRARSPGRT FPAAAGIPAAAAPDGPPLSLLH KLWFPVELGGRALPRAEESHGE VAALGVMVVAQGGKNQGEEA RSTPWL RPTSHLPPCSSSSAWW TEQTD AHP LLFLLCLGIYLLNA LSNLSMVALVRSDGALRSPMY YFLGHLSLVDVCFTTVTPRLL AGLLHPGQAISFQACFAEMYFF VALGITESYLPAA MSYDRATAA CRPLRYGALVTPWALRLAARY DRLASVVYAVITPTLNPFINSLR NKEVKGALKRGLRWRAAPQE
17475	47843	A	17581	1	3042	
17476	47844	B	17582	1	3384	
17477	47845	B	17583	1	3264	
17478	47846	A	17584	1	3780	
17479	47847	A	17585	1	3165	
17480	47848	A	17586	1	3894	
17481	47849	A	17587	1	3345	
17482	47850	A	17588	523	3981	
17483	47851	A	17589	1	3429	
17484	47852	A	17590	1	3921	
17485	47853	B	17591	1	4797	
17486	47854	A	17592	1	6499	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQKLEKEKQEQT HSKASRRQE ITKIRAE LKEIETQ

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17487	47855	A	17593	1359	2520	IQCHPHQATNYFLHRIGKNYFK LHMEPNKSLHSQDNPKQKGTK LEV/CTLPDFKLYYKATVTKTA LYLYQ/NQRCRSMEQNRALRN NATYIYNYLIFDKPEKNKQWG KDTLFNKWCWENWLAICRKLK LDPFLTPYTKINSRWIKDLNVRP KTIKLEENLGNTIQDIGMGKD FMSKTPKATATKAKIDKWDLIQ LKSFCTAKETTIRVNRQPTWE KIFGIYSSDKGLISRIYNELQQIY KKKTNNPIKKWVKDMNRYFSK EDIYAAKRHMKKCSSSLAIREM QIKTTMRYYLTPLRMAIHKKFG NNRQETVREMACLLSGTMDFR HRACFVLSKPDFSTRWPGADA QRPPVLVVVALDSSLFPQASG QRPPSLEDVDGGAGALVAPC
17488	47856	A	17594	1	1227	
17489	47857	A	17595	2	2774	NLCSLIIPLEVTIVEKADSSSVL PSPLSISTRNRMFTLFANLKDRD FLVQRISDFLQQTTSKIYSDKEF AGSYNSSDDEVYSRPSSLVSSSP QRSTSSDADGERQFNLNGNSVP TATQTLMTMYRRRSPEEFNPKL AKEFLKEQAWKIHFAEYGGIC MYRTEKTRELVLKGIPESMRGE LWLLLSGAINKATHPGYYEDL VEKSMGKYNLATEEIERDLHRS LPEHPAFQNEGMGIAALRRVLTA YAFRNPNI
17490	47858	A	17596	1	3472	
17491	47859	A	17597	1	900	
17492	47860	A	17598	1	1290	
17493	47861	A	17599	153	3834	
17494	47862	A	17600	299	1184	
17495	47863	A	17601	1	729	
17496	47864	A	17602	1	2232	
17497	47865	A	17603	36	224	TQWGPSVCWCLIPWPSFPDQ*P GF*AVLLPWRCQGFWPPLLAC APAGPATAAEPVSSPAEP
17498	47866	A	17604	1	624	
17499	47867	A	17605	1	578	RDLDFSLPQDITLVHYVDGIM LIGSSEQEVASTDLLVRHLHA RGWEINLTKIQGLATSVKFLGV QWYGACRDIPSKVKDKLLHLA PPTTKKEAQHLAASFEGWPEQ KGLQQVQVAVQAALPLGLYDP ADPMVLEVSVAARDVAVWSLW QAPIGESQWRPLGFQNKALPSA DNYSPPERQLLACYWALVETE

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17500	47868	A	17606	1	282	PIYRVSARKAANFEWSPEQEKA QQVQAAVQAAWPLGPYDPAD PMVLEVSADRDADWSCWQA SI/GHKVGHAQQHSIIKWKWYI RDWARADPEGT
17501	47869	A	17607	1	338	SIYLVLTQKAA/SSEWGPEQEKA LQEVQAAVQAAALILEPYDPAGP VVLEVSLADRDVWSLWQAPI GESQQRPLGFWSKALPSSA/DH KACHAQQHSIIKWKWYIHDRA RAGPEGT
17502	47870	A	17608	1	757	
17503	47871	A	17609	1	1317	
17504	47872	A	17610	2	24	LCQRLLLAEPNEKPGSLGNVM AVARIEIGICEYYHEKTTEKALD SHGVLASTIKGVRSFQRNLEL KLPATERATANAIELLTVLDQA YENFAPQILPSTGSPTSQETAQF KANQNKPLVRGKGSPHEAIRYI SAAHREWKPAILTSAIRSFCST WLVFTSKNFPKLVTHGSTIAG NGQSSDETQVQGAAWKSDSRG TKRQIPTWILAEGNNAQAQLDI PGPTIPAPNCSLKVPQSWSTTPS MPSSLGKAYWLLACYWALVET E/RLAMGHQVTM/KPELPVMN WVLSDPSSHKVGGAAQQHSINK WKWYIRNRARAGPEGTS*LPAP LIG
17505	47873	A	17611	1	1815	
17506	47874	A	17612	875	1916	PGKQGLEWTPRKLQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTCCKEAKNFDKRLEEL LIQITSLEKNISDLMEKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RGYHN*S /QEIQTITIREYYKHLANKLENL EEMDKFLDTYTLPRLNQEEVEP LNRPITSSEIEAVINSLPNQKSPG QTNSQLTSTRDAEKAFNKIQHP FMLKTLNKLDIDGTYLKITRA/ S*QTHSQCHTEWAKAGSIPFEN RHKTRMPSLTTPIQYSIGNSGQ GNQEFWKLHLVEREW
17507	47875	B	17613	1	1158	

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17508	47876	A	17614	851	1344	IILKPSPLYPWKNCLPRNPSL VPKRQTGSGVDIWQTAADLQQ RGLLEGKLTNRKE*YQHQQKR CPHQNPISRPTSNTKARE/QNW TENEFDELTEVGFRRWITNSSQ LKEHLLTQCKEAKNLEKRLEEL LTRITSLEKNINDPMELKNTAE PHEAYTSINS
17509	47877	B	17615	99	716	
17510	47878	A	17616	1	588	
17511	47879	A	17617	1	1140	
17512	47880	A	17618	1	774	
17513	47881	A	17619	3	527	AENSKKQNASSPPND/RNSS/EA QNWTEFDELTEVGFRRWIV TNSSKLKEHVLTQCKEAKNLD KRLQELLTRITSLEKNINDLMEL KNTARELREAFTSFCVNC EAVS LITSLREDSHWLED SKGHRM/R RHQE*KCEYFHPPHPGLQFYQL PESDSHSDPLWPHGG SFLSSVV
17514	47882	A	17620	1	1383	
17515	47883	A	17621	1	990	
17516	47884	B	17622	337	1515	
17517	47885	A	17623	153	474	QTKSNNVNIKKQDVHTKTPSEG HQQRPKADHNSLPAREQNWIE NEFDELTEVGFRRWITNSSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17518	47886	A	17624	1	771	MPFSDTERVITGPSTKVHSSYPG GLQALLQLRLHSLMWRWSAA VAIGVHVRCDLLAVHPVLWAV PQWQEPKMLTLIPGPRIATII GLYQHEGIRAYCDSRVYYIKPS SGIESVLTRPSTQDHNSSPAREQ NWTENEFDELTEVGFKKWVIT NSFELKEHVLTQWKEAKNLEK RLANLLTRITSLENINDLMELK NTAQELHEAYASINSRINQSEER ISEIEDQLTEIEQVDKIREKRIK/R RNEQSL*EIWDYV

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17519	47887	A	17625	53	814	PGKQGLEWTPRK LQQTCKRGA GQLEEKLANRKQ*HQH*QKG*P /PQKLNADHNSSPTREQNWTE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNFDKRLEEL LIQITSLEKNISDLMEKNTARE/ LLEAYTSINSQIDQAEMDR*PD* *RRKERRIK*HNKK**RKEQAAI FAVLQPPLVITRQTGSGVDPQK TPADLQKRCRTVRRKTSQQKA VASTLTKRITTQKLNADHNSS PTREQNCTENEFDELTEVGFRRWVITNSSELKEHVLTQCKEAKNFDKRLEELI QITSLEKNISDLMEKNTARERWKHTQVSIKSIK QKWTASQTNKEEKREESNSTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEVEPLNRPITSSEIEAVI NSLPNQKSPGQTNSQLTSTR
17520	47888	A	17626	1	1566	
17521	47889	B	17627	1	1005	
17522	47890	A	17628	1	2172	
17523	47891	A	17629	1	504	
17524	47892	A	17630	2	1601	
17525	47893	C	17631	132	278	
17526	47894	A	17632	380	828	EVL RVMIELNAVIYPY PKDTGC QPLV*HAAASLNSPEVMGATQ LKPLRPCKKCPKINLEGGH*EW MEARHRNLGTLHGLPCSRTHF* TTTAQGEWLCC LCHCGEHPQG GRHPCIC*HCYSCHTLAPPVQW TPNVAEPDNKAGA QYKSPRV
17527	47895	A	17633	1	963	
17528	47896	A	17634	2	368	EFS DPIHHTFDH MWRTKEHNE AGWLLLSSVDKVMKENDELGD SISQLQKQILSLKSAKIALSESLI SCRERTEIVEK*T*ALIMLVADL Q*KVHAQPHHAQPRQVSTVKV RALIVLQEVTD P
17529	47897	A	17635	1	1881	
17530	47898	A	17636	755	939	ARKNTRIISYSGVCKNVETWR* MFCTLLGRQQGCATVGKGDRG GPLRYYASWRKGDVLQGD
17531	47899	A	17637	367	423	
17532	47900	A	17638	3	1925	
17533	47901	A	17639	1	1137	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17534	47902	A	17640	153	474	QTKSNNVNIKKQDVHTKTPSEG HQQRPK\DHNSLPAREQNWIE NEFDELTEVGFRRWVITNSSEL KEHVLTQCKEAKNLEKRLQEL LTRITSLEKNINDLMELKNTA
17535	47903	A	17641	1	1068	
17536	47904	B	17642	1	717	
17537	47905	A	17643	585	2302	VLQLLRQERLELFVPPGELVVS LASGVKLQTFAGGKAWLLQTH SDLGEQKLTFIPISLSLKVIFWC NWPEAKTAAYDGEQATCEPVL KAMFLADTHLLREFLGHWLDK LRREWQVERAFQTALWLLQPE VVFILEDVFDEGKWSTSEAWV DDVEQFRKMFRHPSHVQLKV AGNHDTGFHYETNTYEVERWR NRNPNPSFIMGSITPTDYALSKCH LPPEDVVLIIYCGVKLPDRIVDS KAGLLKLPVLKNVISTQLQFPSI MDQLLVYNLFNETSPLVMCLD VMAMSNRGNHHLAATRLRKV LDHNSLPAREQNWTENEFDEL EVVFRRWVITSSSELKEC/DVLT QWKEAKNLEKRLDELLTRITSL QKNINDLIELKNTAQELHEAYT SINSQIDQVEERISEIEDQLNEIK CEDKIREKRMKRNKQTLQETW DYVKRPNPCWIGVPESDGENG TKLENTLQDIIQENFPNLARQA NIQIQEIQRTPQRYSSRRATPRHI IVRFTKVEMKEKMLRAAGEKE DETDNNEFFLWSQKGKAGTL NDHVEESCPPTKNACLGTPHC
17538	47906	A	17644	1	282	PIYRVSRKAANFEWSPEQEKAL QQVQAAVQAAWPLGPYDPAD PMVLEVSVADRDADWSCWQA SI/GHKVGHAQQHSIIKWKWYI RDWARADPEGT
17539	47907	A	17645	3	903	
17540	47908	A	17646	1	349	
17541	47909	A	17647	1	489	
17542	47910	A	17648	1	352	
17543	47911	A	17649	1	505	KTDGSRWMTVDYHKLNQVAT PVAAAVPDVVSLLQINTSLDT WYAAIDLGNVFFSIPVHKVHQK KFAFSWQQQYTFVLPQGYIN SPALCRHFVRRHLD/RFSLPQDI TVVHYIDDIMLVGPIYRMTR KAAIFEWGPEQKALQQVQAAV QAALPLGPYDPADPMRLR

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17544	47912	A	17650	1	1557	MASPEAVASQDNDGFSQKPPPT PLFASRSVNRLLKSQRTPRGEVE SVTDGEKTDGSRWMTVDYCKL NQVVTPIAAAVPDVVSLLLEQIN TSPDITLVHYIDDIMLNGSSEQE VTNTDLLVRHLCATGWEINPT KIQGSSTSVKFLGVQWCGDCR DVPSKVKDKLLHLAPPTTKKEA QHLTGLFGFRRKYIPYLGVLLC PIYQVTRKAASFQWRPEQEKAL QQVQAAMQAALPLGPYPDAGP MVLEIAVADTEAVWGH/WHSA SFPSHPCHCPMPG*TKWP*WQG WRLCMGSAWTSTHEG*PGYG HQ*VPNLPAETNTEPAI*HHS/ SRRSASYLVAG*LYWTSCIMER AE\HLLWIWVCLSCMQCFCQD YHPWTHGMPYPPLWYSTQLCL *PRHSLYH*RSVAVGSCSWNSL VLPCSPSS*SSRVDRTVERPFEIT TTMPTSQESRVQESRGGSGSGT THHHP**STSNIFASCFYGITFC WSRGLSSRGRNAATRRQNNSIK L*VKIATWTLWAPPTSKL
17545	47913	B	17651	47	838	
17546	47914	A	17652	1	1566	
17547	47915	A	17653	1	981	MVAIAKVLIAYKEDSDSHNQPN TRMTVSKGPVSAVEGGRRGQD SDDCVEENDAVRTWPPSRJLRT ESHPSPHTCSWRRHLLSSCPYT GMSFPIPSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTW\CHNLIWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHHP KVDSCSTTAPF*DIPEGQQL
17548	47916	B	17654	179	1219	
17549	47917	A	17655	1	2655	

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17550	47918	A	17656	1	942	MVGKAKWKPLELPLPRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKT DGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQPFAFSW QG/QQYTFTVLPQDYINSLAL*H NLIWRDL DYFLLLQDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGTTTSVI AQWAHEQSGPGSRDGGYAWA QQHGLPLTKADLATTTAECPCV QQQRPTLSPRYGTIPSLPLTKAL TLQLKKCSSGPMLMEFTGLAM FPIILKQLD
17551	47919	A	17657	1	868	
17552	47920	A	17658	83	346	
17553	47921	A	17659	1	643	MVGKAKWKPLELPLPRKIVNQ KQHHIPEGIAEIAATIKDLKDAG VVIPTTSPFNSPIWPVQKT DGS WRMTVDYCKLNQVVTPIAAAV PDVVSFLEEINTSLGTWYAAID LANAFFSIPVHKVHQPFAFSW QG/QQYTFTVLPQDYINSLAL*H NLIWRDL DYFLLLQDITLVHYI DDIMLIGSNDHKVGGAQQHSII KWKLYIHDQAQTGPEGT
17554	47922	C	17660	38	202	
17555	47923	A	17661	3	410	LKSRQAPRCEVESVTHEEVYYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLCNLIWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLL
17556	47924	A	17662	2	526	
17557	47925	A	17663	2	431	
17558	47926	B	17664	55	1506	
17559	47927	A	17665	1	753	
17560	47928	A	17666	73	310	QLAEPHWLPD*KGAGFEWGP EQKKALQ*VQAAVQAALPLGP YDPADPMVLVVSADKDAVWI FHLGSDRWRRRTYRCL
17561	47929	A	17667	323	687	KTDGSWR/TVDYRKLNQVVTPI AAAVPDVVSLEHINISPGIW/H HQKQFAFS*QGQQT/FTVL/PH GYINSLALCHNLIRDLDFSLP QDITLVHYIDIVLTGSSEQEVA GSLESTCRHTKV
17562	47930	A	17668	3	1363	
17563	47931	A	17669	1	1203	

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17564	47932	B	17670	130	1374	
17565	47933	A	17671	1	1063	
17566	47934	A	17672	3	239	
17567	47935	A	17673	231	368	NKHQEDSLKPPIPGPSSWTA/P KPTLGQKGTCTEKKKKKKKK GRI
17568	47936	A	17674	1	1270	
17569	47937	C	17675	100	270	
17570	47938	A	17676	459	1978	
17571	47939	A	17677	35	347	VVRAWYPGWGQGSEKEWQW DQQEALGRVRGSKVTGEWEGR AGPEGTGQNGEGPRGILEVGGT TAPFCLAEGEWGPGGHPHLLF PPSPRPPPPQPPPTPEPPS*PPSP PRPPPPQPPPTPEPPS
17572	47940	A	17678	236	397	NWLQPCG*AHPTGSGFPAPKLC PASPGAPFSNEILSEPGPTLAPM PT/GAPCRSHGAGHSGDPGWPS SSPTGEDTNSAGPGAARVQMG CGHCVSLVPR*/CCWTPGGA
17573	47941	A	17679	132	492	TDHRDRDKHPPALPASAMDK KNA/GQEGRPGASRGSSPMATA TTGPQGVMPGYH*CSLRPKGSS VGLW*MLPGLGLTLQDSGLPS GPRQVQNYCPGAKALNQGPQE PA*CKASNQRPSVYLPTREYPS EQIIVTEKTNILLRYLHQQWTK RTLPRRKTRSKQRKLTYGYCH YRSTGSNARLPLMFIKTQGFFS RLVVDAAWPGTHPSGQWAPF WPKAGPELLSRSQGFESGTSRA RLMFYPTMAAPVPK
17574	47942	A	17680	618	755	
17575	47943	A	17681	796	1092	
17576	47944	A	17682	1	391	
17577	47945	A	17683	1	697	
17578	47946	A	17684	1	888	
17579	47947	A	17685	749	1667	
17580	47948	A	17686	1	2088	
17581	47949	A	17687	189	438	
17582	47950	A	17688	387	497	

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17583	47951	A	17689	1	728	MAQEIEGDRLFRARLTRRVQG KGPCGPLKAPLGMVPECHSVK PSRDTFDSTKSFKALLLSFLKIP AIDVHKPIDHPINFTFDPGHR PARHRHSTAAAVTMSPSGP/PA AAPSPCSPIPRHG*GPLRATSYC PVSWKQKQNSVSNKQTNEQTK TAKAEGARSRGPRNKIPGLPPG PRSGRLIWLPPPREGSGFQTPAR GHPQPPCSGKGTECQSIAQNLA SRISPVGTSCGRTSRQTIRVRK
17584	47952	A	17690	1	819	
17585	47953	A	17691	1	2115	MSGSYSSVWAEDDIQFDSRFLE LKGDTKIDLKRFSQGYVEPGK YNLQVQLNKQPLAEYDIYWY AGEDDVSKSYACLTPELVAQF GLKEDVAKNLQWSHDGKCLKP GQLEGVEIKADLSQSALVISLPQ AYLEYTPDWDPPSRWDDGIS GIIADYSITAQTRHEENGDDDS NEISGNGTVGVNLGPWRMRAD WQTNVQHTRTQLALGEDYLNS DIFDGLNYVGGSVSTDDQMLPP HLRGYAPDISGVAHTTAK
17586	47954	A	17692	1	1080	
17587	47955	A	17693	1	253	
17588	47956	B	17694	1	1069	
17589	47957	A	17695	1	764	
17590	47958	C	17696	136	990	
17591	47959	A	17697	1	1422	
17592	47960	A	17698	547	1017	
17593	47961	A	17699	176	431	
17594	47962	A	17700	1	846	
17595	47963	A	17701	1	1815	
17596	47964	A	17702	1	1578	
17597	47965	A	17703	1	1149	
17598	47966	A	17704	22	441	
17599	47967	A	17705	828	920	
17600	47968	A	17706	1	231	MESKRLDNA/CAGGGD*PQLH QCPR*TAVD*RRNQTAFA*RDA STYRHESGGNASPECHGLYQR QKNADGGGGQRRRI
17601	47969	A	17707	1	563	
17602	47970	A	17708	19	372	
17603	47971	A	17709	134	491	
17604	47972	A	17710	1	969	
17605	47973	A	17711	59	839	
17606	47974	A	17712	186	725	
17607	47975	A	17713	1	251	
17608	47976	A	17714	1381	2217	
17609	47977	A	17715	357	804	

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17610	47978	B	17716	1	2361	
17611	47979	A	17717	1	2832	
17612	47980	A	17718	1	3477	
17613	47981	B	17719	143	3122	
17614	47982	A	17720	1	3018	
17615	47983	A	17721	1	4371	
17616	47984	B	17722	1	2010	
17617	47985	A	17723	1	2168	
17618	47986	A	17724	1	2067	MKEIEIQKSLPKINESRSWFFEKI HKIDRLLARLIKKKREKNQID:TI KNDKGDITANPTAIQTITREY KHL YANKLENLEEMDKFLDTY TLPRLNQEEAESLNTPTITGSDIE AIINSLPTKKSPGPDGLTAEFYQ RYKEELKKEGILLSSFYEASILLI PKPGRDTTKKENFRPISLMNID AKILNKILANRIQQHIKKLIHHD QVGFIPGMQGWFNICKSINVIQ HINRTKDKNHTIISIDAEKAFDK IQQPFMLKTLNKLIGDGYLKII RAIYDKPTANIILNGQKLEAFPL KTGTRQGCPVSPVVFNTVLEVL AREIRQEKEIKGIQLGKEEVKRS LFADDMIVYLENPIVSAQNLLK LISNFSKVSGYKINVQKSQAF YTNNRQTESQIMSELPFTIAPKR IKYLRIQLTRDVKDLFKENYKL LLNEIKEDTNKWKNIPCSWVGR INIVKMAILPKGIHRFNAIPIKLP MTFFTELEKTTLKF IWNQKRAR IAKSILSRKYKAGGSMLPDFKL CYKATVTKKAWYWYQNRDID QWNRTEPSEIMPHIYNYLIFDKP EKNKQWGKDSL FNKWCWENW LTICRKLKLDPFLTPYTEINSRW IKDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMATKAK IDEWDLCLKL\SFCTAKETTVR VNRQPTWEWETIFAIYSS
17619	47987	A	17725	1	3457	
17620	47988	A	17726	1	3630	
17621	47989	B	17727	1	3384	
17622	47990	B	17728	1	2199	
17623	47991	A	17729	1	3924	
17624	47992	A	17730	1	3345	
17625	47993	A	17731	1	2382	
17626	47994	A	17732	1	3720	
17627	47995	A	17733	1	3894	

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17628	47996	A	17734	1	2427	MGCVRQIIPLGTHPVVHQLTSIP QNCQSPQKTRKDREIGQPRGAY GDMRSKCNVMLMMESWNRKR TLEIQTIREYYKHLTYTNKLENL EEMDKFLDTYTLPRLNQEEVES LNRPTHSDIVTIINSLPTKK\SPG PDRFTAKFYQRYKEELVPFLK LFQSIEK/EGILPNSFYEASIILIPK LGRDTTKKENFRPISLMNTDAK ILNKILANRIQQHIKLIQHDQV GFIPGMQGWFNIRKSINIIQHIN RIKDKNHMIISIDA EKAFDKIQQ PFMLKTLNKLIGDGYLKIIRAI YDKPTANIILNGQKLEAFPLKT GTRQGCPSPLLFNIVLEALAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTS NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWIGRINIV KMAILHKALYRFNAIPIKLPM FFTELEKTTLKFIWNQKRACIA KSILSQKNKAGGITLPDFKLHY KATVTKTAWYWYQNRDIDQW NRTEPSEIIPPIYNLIFDKLDKN KKWGKDCLFNKWCWQNLAI CRKLKLDPLLTPYTKINSRWIK DLNVRPKTIKLEENLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFVTYSSDKGLISRIY
17629	47997	A	17735	1	3780	
17630	47998	A	17736	1	2808	
17631	47999	A	17737	1	4842	
17632	48000	B	17738	331	3282	
17633	48001	A	17739	1	2880	
17634	48002	A	17740	1	3213	

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17635	48003	A	17741	1	2561	MKAEIKTFFETNKNKDDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLEKEKQEQT YSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFEKINKIDRP LTRLIKKKREKNQIDSIKNDKG DITTDPTIEIQTIREYYKHLNAN KLENLEEMDKFLDTYTLPRNLN EEVESLNRPIGSEIEAIINSLPT KKSPGPDGFTAIFYQRYKEELV PFLKLFQSIEKEGILPNSFYEAS IILITKPRHTTKNFRPISLMNI GAKILNKILANRIQQHIKKLIHH DQVGFIPGMQGWFNIRKSINVI QHINITNDKNHMIISIDAENAFD KIQRFMLKTLNKLIGDGMYL KIIRAIYDKPTATQNLKLIGNF SKVSGYKINVQKSQAFLYTNN QTESQIMTELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLSEIK EDTKKGKNIPCSWVGRINIMK MDILPKVIYTFNAIPKLPMTFFT EVEKTTLKFCINQKRARIASFL SQKNKAGGITPPDFKLYYKATV TKTACYWYQNRDIDQWNRTEP SEIMQHIYNYLIFDKPDKNKQW GKDSL FNKWCWENWLAICRKL KLDSFLTPYTKINSRWIKDLNIR PKTIKLEENLGSIIQDIGMGKD FMSKTPKAMATKAIDEWDLIK LKSFCTAKETTMRVNRQPTW EKIFATYSSDIGLISRIYNELKQI
17636	48004	A	17742	1	5042	MTGSNSHITLTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKAGVAILVSDKTDKPT KIKRDKEGHYIMVKGSIIQQEEL TILNIYAPNTGAPRFIKQVLSL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNLL
17637	48005	A	17743	101	471	MLSRILASRNRMRAVEVVRA VRE/RVGNDFFIIYRLSMLDLVE DGGTFAETVELAQAVEAAGATI INTGIGWHEARIPTIATPVPRGA FSWVTRKLKGVSLPLVTTNRI NDPQVADDILSSTH
17638	48006	A	17744	161	311	

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17639	48007	A	17745	221	799	
17640	48008	A	17746	20	346	
17641	48009	A	17747	431	1578	
17642	48010	A	17748	1	771	
17643	48011	A	17749	3	863	AVLRREMRQMEGAWLGSDLV DQGERLNLRLGFFETVDTDTQ RV/PGSPDQVDVVYKIVSLGGR LFYNDFQADDADLSDYTNKKIE IIDSHADYFHIDIMDGHFVFNLT LSPFFVSQVKKLATKPLDCHLM VTRPQDYIAQLARAGADFITLH PETINGQAFRLIDEIRRHDMKV GLILNPETPVEAMKYYIHKADK ITVMTVDPGFAGQPFPEMLDK LAELKAWREREGLEYEIEVDGS CNQATYEKLMAAGADVFI VGT SGLFNHAENIDEAWRVMTAQIL AAKSE
17644	48012	A	17750	2	893	
17645	48013	A	17751	139	2057	
17646	48014	A	17752	2	361	
17647	48015	A	17753	497	897	PRSAFSAWLAFCST/TKDSHPL LAQLLDGVENLDHRQHLLFTA GHGARPLIRAHADVEENDHDPF ILIVHPSIHPHIIYLSIHPSTIRGERL MTQIPLIKHFLAGVTGLKLTQQ MRFCEVCLPLIATAGNRQTH
17648	48016	A	17754	83	1038	PSRAGHLPPKIKSSMAGTTPCLS IMVRQRK/PLVPAPLYQGMRDG KIVRFEEITRTPLEVQDCLLASA LALGLALMGNAQAVTTIPFWH SMEGELGKEVDSL AQRFAEN PDYKIVPTYKGNYEQNLSAGIA AFRTGNAPTYFAGHIMQACGV ALSATIIYFIRRKVVSLSDQKLNI AMTFVGSMGALLVQYVQAD VLRQILPILVICIGLYFLLMPKLG EEDRQRRMYGLPFALIAGCCV GFYDGGFFGPAAGSFYALAFVTL CGFNLA KATAHAKLLNATSNIG GLLLFILGGKVIWATGFVMLVG QFLGAPHGVPTCV
17649	48017	A	17755	571	1728	
17650	48018	A	17756	332	511	
17651	48019	A	17757	581	637	RALR*SLQDGS AKRGASVS
17652	48020	A	17758	1	1098	
17653	48021	A	17759	1	366	

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17654	48022	A	17760	321	611	GEGENYCDSSVMTWVAI*QN WQCHCCSLRCASLRQG*RQDV TDTRGETIKREMARNWV/WRA RVINAGFSRGSLLRGPISDHRRK RLSASIRQFYPRP
17655	48023	B	17761	95	645	
17656	48024	B	17762	1	3978	
17657	48025	A	17763	1	328	MLIAEGLMTAKNITVITNSLPA AFALSENKDITLVVCGGTVRHK TRSMHGSIAERSLQDINADLMF VGADGIDAVNGITTFNEGYSIS GAMVTAANKVIAVLDSKFNK RGFNQVLPKIDIIITDDAVSEV DKLALQKTRDTSVYVLSLADF FRTASTIGERDGTQVEMILFAGF VYLVISLSASLLVLTDCSTEVK KGEVVVVCGPSGSGKSTLIKT V NGLEPVQQGEITVDGIVVNDKK TDLAKLRSRVGMVFQHFELFPH LSIIENLTLAQVKVLKRDKAPA REKALKLLERVGLSAHANKFP AHYSGGQQQRVAIARALCMDP IAMLFDEPTSALDPEMINEVLD VMVELANEGMTMMVVTHEM GFAVKWRIGSTQQGAQLHCNR WLHVRKHLLVAYYNLVGIKPG KESYMRLNEKALDDFCQSLVD YLSAGHFSIYERILHKLEGNGQ LARAANKIWPQLEANTQQIMDY YDSSLETAIDHDNYLEFQQVLS DIGEALAAAFVLEDKLILLVLD AAR*NLLKLKVIIMIDGGFQTGI VVIHNLLSIGFELRPNLRGAREL PVAFQLMKNALINTEMSGRQVI DQALTKIHKGFFV
17658	48026	A	17764	216	473	DALRVASGNGCYSALLPLFCRL L*AESA*VPVQRPCGETLMRSS VVCLGGTAPECSSLGCAEKSGR SWPRKVAHTLGSWTVPRES
17659	48027	B	17765	1	1570	
17660	48028	A	17766	1580	1764	PASSLVMR*CLNRIASRAHQPA VRAY*SASAPGIA*KENA*G*RL HHR*NPAGKPDPELL
17661	48029	A	17767	1	1827	
17662	48030	B	17768	1	1281	
17663	48031	B	17769	72	1169	

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17664	48032	A	17770	20	552	SAGDA*DWFHGGVAGGNG* RSP*A/VTSSALKCIHRALVRAW LLRMKKV*ATCA*CVTMRLKC CIK*/CPDNSLRMVQLFFDPWH KARHNKRRIQVQVFAELVKS KLQGGVFHMATDWEPYAEHML EVMSSIDGYKNLSESN DYVPRP ASRPVTKFEQRGHR LGHGVWD LMFERVK
17665	48033	A	17771	3287	3568	CAFQRNIWHAKLNASPTPVFVP **LLASLTIPMKPAAMP GGKMD WWRVCRASASRPCQK*SLCQT PASVNTLLTVTAVCCASMASTT TRLWKI
17666	48034	A	17772	1	3126	
17667	48035	A	17773	249	3943	
17668	48036	B	17774	1	2178	
17669	48037	A	17775	263	434	
17670	48038	A	17776	619	1184	MRTSCGSFIKRRVMRRIASGMV AENRAV**PSGICAIMVSTSSMK PMR SISSASSRTRPLSL/AEVQSA TFQVVQQTARSTDNDLRPLTQ GA*LHVITLAAVQS/IPHLRRAC V*RNPSLLQQPVPPVRG SV PAP ESVVL SAQDQDSATEVKRMLQ FFRSPSGPYPERRGHSADVEYT LPELEMVFRNPDR
17671	48039	A	17777	1	1485	
17672	48040	A	17778	497	1838	
17673	48041	A	17779	534	922	
17674	48042	A	17780	1	458	MQQLEEALKQLAQSGSSQAL TQVRRWDSACQKLPDANLALI SVAGEYAAELANQALDRNLNV MMFSDNVTLEDEIQLKTRARE KGLLVMGPD C/WYVDDCRHTA GFC*RDAGRQYWRHWRFRYR DSGAVFADCAGRGGNYSRDWP WRARPQP
17675	48043	A	17781	2	270	QAGKYYGGAVFAPVFGAIMGG VLRTMNI EPDALTSVDKNEFVI NHGEGTGGRS*FARPSCSVGAR RTFASTARD DTRQPCGCGGRSL CS
17676	48044	A	17782	1	1437	
17677	48045	B	17783	63	201	
17678	48046	A	17784	1016	1263	
17679	48047	A	17785	1	933	
17680	48048	B	17786	1	1888	
17681	48049	A	17787	845	2220	
17682	48050	A	17788	110	581	
17683	48051	A	17789	696	989	

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17684	48052	A	17790	199	573	
17685	48053	A	17791	1	3270	
17686	48054	A	17792	1	3018	
17687	48055	B	17793	1	708	
17688	48056	A	17794	264	512	FLAQWLPELPLSRHLRQCTWCR RHRNRW*VRSLHRCWLADCRC PELRIRSHDL*SLAQRSLYDRTR TPDRRQLRTVLHWLLC
17689	48057	A	17795	1	2109	
17690	48058	A	17796	1239	1854	YHDDRNPQDAGNPSNADSGPQ I*QATGSPRRLVRRIRWKRVR LLAGKLAIVIDDFGYRPHNENQ VLAMPSAISVAVLPDSPHAREM ATKAHNSGHEVLIHLPMAPLSK Q/TAGEKYATPGDEQRRN*AHY S*WVNNVPYAVGINNHMGSK MTSNLFGMQKVMQALERYNL YFLDSVTIGNTQAMRAAQGTG VKVITRKVFLDGFAG
17691	48059	B	17797	1	2243	
17692	48060	A	17798	74	295	TISVLWMLSLNTSKKRLA*TG SIGFFGLHSFTPRNGLRGASGTA FFGGVEVSTCGSFSKLLAFTSV MSGGRL
17693	48061	A	17799	1	1872	MLRIHCMQHWYNLSDGAMED ALYEIASMRLFARLSLDSALPD RTTIMNFRHLLQHQQLARQLFK TINRWLAEGVMMTQGTLDV ATIIEAPSSTKNKEQQRDPEMH QTKKGNQWHFGMKAHIGVDA KSGLTSLVTTAANEHDLNQL GNLLHGEEQFVSADAGYQGAP QREELAEVDVDWLIAERPGKV RTLKQHPKRNRTGISIYMTGSI RARVEHPFRIKRQFGFVTARYR GCLNTITNGDVFLATWFGG
17694	48062	A	17800	1	1269	

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17695	48063	A	17801	1	1988	MNDSEFHRLADQLWLTIEERLD DWDGDSIDCEINGGVLTITFE NGSKIIINRQEPLHQVWLATKQ GGYHFDLKGDEWICDRSGETF WDLLEQAATQQAGETITGFRV YTLQLNAQLRLGFLRLPYSVNL ATEYKSLTHYTKVPEATNPSLE SSVDVKLSANRLKYPMMRKRL MKMWREAKALHSDPVEAWAS IIEDADKAKSFKQARGRGGFVR SSWQEVNELIAASNVYTIKNYG PDRVAGFSPIPAMSMVSYASGA RYLSLIGGTCLSFDWYCDLPP ASPQTWGEQTDVPESADWYNS SYIIAWGSNPQTRTPDAHFFTE VRYKGTCTVAVTPDYAEIAKL CDLWLAPKQGTDAAMALAMG HVMLREFHLDNPSQYFTDYVR RYTDMPMLVMLEERDGYAA GRMLRAADLVDALGQENNPE WKTVAFTNGEMVAPNGSIGF RWGEKKGWNLESIA\RIENPHF RSVKHNPVLVRQLPVKNLTLV DGNTCPVVSVDLVLANYGLD RGLEDENSAKDYAEIKPYTPA WGEQITRVPRQYIETIAREFADT AHKTHGRSMIILGAGVNHWHYH MDMNYRGMINMLIFCGCVGQS GGGWAHYVGQEKLRPQTGWL PLAFALDWNRPQRQMNSTSFY NHSSQWRYEKVSAQELLSPLA
17696	48064	A	17802	3854	5726	
17697	48065	B	17803	1	1869	
17698	48066	A	17804	391	1246	
17699	48067	A	17805	58	1353	
17700	48068	A	17806	872	2123	
17701	48069	A	17807	1	1422	
17702	48070	A	17808	217	509	
17703	48071	A	17809	76	422	
17704	48072	A	17810	2	288	
17705	48073	A	17811	1	1626	
17706	48074	A	17812	779	832	
17707	48075	A	17813	1	1818	
17708	48076	A	17814	1	645	
17709	48077	A	17815	157	293	ALVCSSPWPSEKCKSKPQ*DTIS HQLWQSLKSQETTGADEVE K
17710	48078	A	17816	1	1446	
17711	48079	A	17817	1	306	

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17712	48080	A	17818	71	513	TIRSGLGWSQMEMRNMLGTGA KKYKLPSSENTINTSTQIN*KI*K KRINSSTHTLSQD*TRKKLNL*I DQ*QELKLWQ*SIAYQPKRVQD QMDSQ/REFYQRYKEELHINRA KDKNHMIISIDA EKA FDK IQQR F MLKTLNEVLMGRISK
17713	48081	A	17819	1	828	
17714	48082	B	17820	1	567	
17715	48083	A	17821	1	1224	
17716	48084	A	17822	1	897	
17717	48085	A	17823	207	547	NHFLQGLGPLLQFPTSSSSPSET TSAWTLCPHHYQAFGQSHSTSL *EV/HKLSHIFMSSSEPSKLFQPL PVTQFQSRFHIFRYLFSSIPLYW CQFTVLVHFPAADKDISVTTIP
17718	48086	B	17824	1	1128	
17719	48087	A	17825	1	765	
17720	48088	A	17826	1	952	
17721	48089	A	17827	1570	2176	FLQSTHLTKG*YPESTMNSNKF TRKKQPNQRAKDMKRPFSKED IDAANKHMKKCSSSLAIREMQI KTTMRYHFTPVRMAIHKKSGNN RCWRGCGEIGTLLHCWWDCKL IQPLWKS MWRF LK DLELEIPFD PAIPL LGIYPKDYKSCCYKDTCT HMFIAALFTIAKTWNQPKCPTM IDWIKKMWHIYTMEYYGAIKR MSSCPL
17722	48090	A	17828	1	531	
17723	48091	A	17829	1	462	
17724	48092	A	17830	876	1111	
17725	48093	A	17831	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPGASGTGQARMGQ SHQWAF LWRKDAHV RKESGY MYS LYDRAYGERTTGR RGRGR GPIPRP
17726	48094	A	17832	1	1290	
17727	48095	A	17833	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEF SF EFG LDEKLIHRPGE NEDAPVTHVYA VAR LK DGGTQ FEVMTRKQIELVRSLSKADTDI* PWMCPCPMKRKSAT
17728	48096	C	17834	1	786	

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17729	48097	A	17835	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSELA FDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHTSGRTSDVKA AVELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHR*RNWPIILFAHQPRK RRY*VVMPRQEYYN
17730	48098	A	17836	1	4806	
17731	48099	A	17837	1	466	
17732	48100	B	17838	193	1045	
17733	48101	A	17839	1196	2732	
17734	48102	B	17840	1	732	
17735	48103	A	17841	290	664	
17736	48104	A	17842	302	1716	
17737	48105	A	17843	249	909	
17738	48106	A	17844	36	340	
17739	48107	A	17845	902	1455	RRCVLRP/GLDIMRNRLNIRQQ QRLEQAA YEMTALRAATIELGP LVRGLPHLRTIHRQLYQDIFDW AGQRRITLINHGFVPKSTTVVET NGPSDQSIAMRRPGQTISRHHQV QKKLGIELTNCYEHSGLPDIKN VTGILICRQTHARPARLARLIFT ANKTNTINALVDIEVDDFFTD CQIDCCFETGSHSVLARLGAS AQDLQLDATSASHGSK
17740	48108	A	17846	1	1668	
17741	48109	A	17847	1	1080	
17742	48110	A	17848	1	907	MRAGFTSNVLTFLTCTSHFLNT FRAADV ANVQTATS NFRQIQVF EDIITQYNGKYILAVEGNPPLGE QGMFCISSGRPFIEKLKRAAAG ASAIIAWGTCASWGC VQAARP NPTQATPIDKVITDKPIIKVPGCP PIPDVMSAIITYMVTFDRLPDVD RMGRPLMFYGQRJHDKCYRRA HFDAGEFVQSWDDDAAPKVT ACTKWA AKGLPPITVPHTLE* WVWSRLLAGGNGLDRGRFSGV DSSWISYLSSAISVTMAPATTLN QTSKAALAACAISTLCNGWPA VILAQHRWMKWSGLAS
17743	48111	A	17849	239	899	

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17744	48112	A	17850	155	249	CMRRKTALTGGEPDR*TAMR* HNKSPALTGS
17745	48113	A	17851	1	1326	
17746	48114	A	17852	1	1394	
17747	48115	A	17853	46	705	
17748	48116	A	17854	2	488	
17749	48117	A	17855	563	687	LLARTSRQ*KTSLNCVNKL*MP SGQWAVLLLPVCRCWWLRT
17750	48118	A	17856	1	1429	
17751	48119	A	17857	1	1037	
17752	48120	A	17858	2	276	LLPGFFCSNLAPVPPSGGHQHD LPYPSSA*NPASGTGQARMGQ SHQWAFLLWRKDAHVRKESGY MYSLYDRAYGERTTGRGRGR GPIPRP
17753	48121	A	17859	1	1290	
17754	48122	A	17860	1293	1863	RSTPSMKE/QLATALPRHMTAE RMIRIANTEFRKVPALGNCDTM SFVSAIVQCPQLGLEPGSASGH AYLLPFGNKNEKSGKKNVQLII GYRGMIDLARRSGQIASLSARV VREGDEFSEFGLDEKLIHRPGE NEDAPVTHVYAVARLKDGGTQ FEVMTRKQIELVRSLSKADTD* PWMCPCPMKRKSAT
17755	48123	A	17861	207	210	QLSLLNLPLDSIHHRLASSALK RVNDQVGAAPPRHQSPPRNA VSLAPRPVPEWSCAKLLCLSC RVNCQD*GNKALTSIHFWGE GIVGKMWLFYCTEAHFVRDPS GYSN
17756	48124	A	17862	2	654	FCRQRQCQVYRRGRFTHAAFT GTHRDNLVQVQSKLRADGCAL EDYFSQSEQVLPSELAFDEAPQ DVVNKVFNITLRTIMEGQSIVN VDEIHRAARFFYQARQRDLYG AGGSNAICADVQHKFLRIGVRC QAYPDAHIMMMSASLLQEGDV VLVVTHSGRTSDVKAAVELAK KNGAKIICITHSYHSPIAKLADY IICSPAPETPLLGRNASARILQLT LLDAFFVSVAQLNIEQANINMQ KTGAM*KRP*NWQKRTGQRLF V*PIATIHRR*RNWPILFAHQPRK RRY*VVMPRQEYYN
17757	48125	A	17863	1	4806	
17758	48126	A	17864	1	466	
17759	48127	A	17865	214	907	
17760	48128	A	17866	1288	2757	
17761	48129	A	17867	705	839	AGRSRENNRRYRAKQPRCGKR*F *CVYRFYPSGRYAEPSSAPNYT

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17762	48130	A	17868	199	1628	
17763	48131	A	17869	746	1013	TRARRRFITALRFSSLVSASPCCNWAAAFSS\YFCQQIVR*PHFDRQEKRSVQNPDPGCSASQSVRQRPKSPQQPVQSANPSLLCR
17764	48132	A	17870	2	331	
17765	48133	A	17871	1	591	
17766	48134	A	17872	1	1197	
17767	48135	A	17873	45	3402	NRFSHISVTSACGWYHIPVEE/QPEY/PGNLELERRIRSAIRWNAIMTVLRASKKDLELGGHMASFQSSATIYDVCFNHFFRARNEQDGGDLVYFQGHISPGVYARAFLEGRLTQEQLDNFRQEVHGNGLSSYHPKLMPEFWQFPTVSMGLGPIGAIYQAKFLKYLEHRGLKDTSKQTVYAFLGDGEMDEPESKGAITIATREKLD/NLVFVINCNLQRLDSPRWDELLRKDTSGKLIQLMNETVDGDYQTFK
17768	48136	A	17874	452	1395	LAGATGTAIRLILHAPLLLPIKMRLP/TVSEGKPD SIPAAEKFAAE NKNTYGALASLELAQQFVDKNELEKAAAQLQQGLADTSDENLKAVINLRLARVQVQLKQADAA LKTLDTIKGEGWAAIVADLRGEALLSKGDKQGKHQRAENCEIQGYIDMIKHLVAPLVFTSLILTGCQSPQGKFTPEQVAAMQSYGFTESAGDWSLGLSDAILFAKNDYKLLPESQQQIQTMAAKLASTGLTHARMDGHTDNYGEDSYNEGLSLKRANVVADAWAMGGQIPRSNLTTQGLGKKYPIASNKTAQGR AENRRVAVVITTP
17769	48137	B	17875	1	1579	
17770	48138	A	17876	182	2069	

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17771	48139	A	17877	1	2017	MESGVATRPIADFDVYIDKLTE FVYKTNLFMKPIFSQARKAPKR VVLPEGEEARVLHATQELVTLG LAKPILIGRPNVIEMRIQKLGLQI KAGVDFEIVNNESDPRFKEYWT EYFQIMKRRGVTQEQAQRALIS NPTVIGAIMVQRGEADAMICGT VG DYHEHFSVVKNVFGYRDGV HTAGAMNALLPSGNTFIADTY VNDEPDAEELAEITLMAAETVR RFGIEPRVALLSHSNFGSSDCPS SSKMRQALELVRERAPELMIDG EMHGDAALVEAIRNDRMPDSS LKGSANILVMPNMEAARISYNL LRVSSSEGVTGVPVLMGVAKP VHVLTPIASVRRIVNMVALAVL FVNADETTVVNFHACFACVEV FTVRHTTNRYQHGVVTLRFSG CFFAFHRHINAVFFRFNIQAVFV ALRPEVIAIMHKLREQGHRVVV LSNTNRLHTTFWPEEYPEIRDA ADHIYLSQDLGMRKPEARIQH VLQAEGFSPSDTVFFDDNADNI EGANQLGITSILVKDKTTIPDYF AKDKARHRTPLWAWLKLLW QRIDEDNMTTLAGNLAYVSLLS LVPLVAVVFALFAAFPMFSDVS IQLRHFIFANFLPATGDVIRQYIE QFVANSNKMTAVGAASLAISS YLLSLIANVLM LMS*SVLRMS WNPKWAWSSIWYS
17772	48140	A	17878	31	312	RGTGHCALYRRAARCAKITL TTFISLFSSYFVIYNILLIYLIFA ASFCLLVV*CIITVFITVCSAGD VSGMSATWCAFVAISVDHFTG FNRF
17773	48141	A	17879	1	1098	
17774	48142	A	17880	1	1015	
17775	48143	B	17881	1	1917	
17776	48144	A	17882	931	1773	
17777	48145	A	17883	785	956	KKWMHSAV*WRKRSIRRVSSL GY*TQAKDRRFALPELRIVCS TVRRYVRRWRTNRT
17778	48146	A	17884	221	367	
17779	48147	B	17885	1	1318	

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17780	48148	A	17886	1190	1634	APSQTVSLPEVASSMSGVMAG VEAVSSPGPYAVCAGSLLPSGW LCVKTSVIAMIASAWSAPGAVS IKRSSAVSVRIWALCGA\QPECA VRSLPSYPAFRQVLAPVTHAL* PRRSSGCP*CDYSLQLLLQ*PAH *HLQGLLRKQLSCQR
17781	48149	A	17887	1	2499	
17782	48150	A	17888	454	1698	
17783	48151	A	17889	635	1665	KSIFWRAPADCEP/QVRQSAKV QFGDYQANGMMAVAKKLG APRQLAEQVLTHLDLNGIASKV EIAGPGFINIFLDPFLAEHVQQ ALASDRLGVATPEKQTIVVDYS APNRGFFGGGAPLGTTLQDLTR PTKEDGLQAKPISFWASFALQF VNVKIILYGVLTALSTFVLPQTQ ALSWVVGVSLLAMIGTFGNV CWALAGHLFQRLFRQYGRQLN IVLALLLVYCAAFSKGTSDNVA LLFRSQRVKANCITGYTDGQLR IFFRMLNCIFQSFATQNVNVQV LTTFNANFWHFYWNFTVFNV TQFAYCNHFIFCITCFNDATPF AFFAVQQPERVHRKTAILL
17784	48152	A	17890	73	212	
17785	48153	A	17891	2049	2445	VFPVFLRIYVFWKKPGMKVTN ARNWQLKPLFTELVPILPDTQL HYVAWMELYSPE*ERIQA*FV VWSWNIWLY*A*RLIQK*IIALT PVVRTGKTKLMSAILFNITHR MKAMNLSSPKRRLPPRNCGKK
17786	48154	A	17892	1	1476	
17787	48155	A	17893	332	572	RGGA*RQKHRRTSALSLLSLP* NMATAVHLHRFSTRRAVTSSS ARKWTNSGAMSGLNRRASA\AV LRV*QSPEDGCCARIR
17788	48156	A	17894	80	405	PRNLKSGPPISDAISPTSKP*TI TEPISAPSLATYKAAGCGGTT QCTAINAVHSGMASFNNEVLV FLAIEKARGINSTTPTSTNSVMP QIRPTSTIMTSTESQRQR
17789	48157	A	17895	1	1392	
17790	48158	A	17896	1	1374	
17791	48159	A	17897	1971	2306	
17792	48160	A	17898	209	449	
17793	48161	A	17899	1	240	
17794	48162	A	17900	1	456	
17795	48163	B	17901	222	3807	
17796	48164	A	17902	3140	3219	
17797	48165	A	17903	240	298	

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17798	48166	A	17904	1902	2047	NQPVYRSNGD/RIWRTGKLFPT TVFRLIRTLSPRAFPFPTS YRRC S VAY
17799	48167	B	17905	1	1994	
17800	48168	A	17906	1	2151	
17801	48169	A	17907	3	1127	GTPYASQPVIRPVEGSKPLIKQV LDIGAHGTDKTIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVRQ LAHDGHELVYVPCHRSHMDYL LLSYVL YHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPM LMTYLNQHVPDWRESIDPIEAV RPAWLTPTVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNICYLDMRNVP
17802	48170	A	17908	192	486	PVLVYLWVSFSWLCGRSLVCD AFGCVLCVLCFWCGVCWGWF SRCLVLVRVLDCAVAWVCPL GVGIGLWV/RVLP TGLVSAVPC CCDVLARFRVLDLCWG

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17803	48171	A	17909	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLTGTINNKGAL PGDSTSGVLRTYERLLTAWML TGPCADEHQGESVKLATALT WWLRGSQNRDEITKDGFSNH AGGILGGISSGQQIIAHMALKPT SSIDVPGRITNRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKTDIRC AQSIGSFSGCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTSQAQLRPQAL DLVSRDGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLPDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRN PNLDVQMVPSVMFGRAPGRE KGEVNPPLRMLNGVQKFFAVL WLGRDSFVRFPSVSLRRMADE HGTDKTIAQKLARVARMHFA RQRLAAVGPRLPARQDLFNKL
17804	48172	A	17910	1	734	
17805	48173	A	17911	1	962	
17806	48174	A	17912	1630	2633	
17807	48175	A	17913	1360	1600	HSTGRWATTINVPITCGTKARH STSSICKTGMILLWANALKQHC LLSRNLP*KGESINVANSLLSYF NLRPQCNQTRTQD
17808	48176	A	17914	1	816	
17809	48177	A	17915	703	1546	
17810	48178	A	17916	209	485	QVIRPTFIPSTSSNGAISLPASTR RDS*MANAS*RCSLA*RATMFP A*SATSIFHARPGVEGT*IVRIV VIMLRLLSRRKVRGIRLPAVL
17811	48179	A	17917	619	1167	

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17812	48180	A	17918	1	764	DSGQQQLDDVQLARYLLSGQNQ PKSDRPYRVR*LTGAMLKLILT L/VIEGNVTLGHRVKIGTGCVIK NSGDWR*LRNQSVYRCGRCES GSGLYHWARLPVCVLVLSCWK VLTSSLVPPD
17813	48181	A	17919	3	1462	
17814	48182	A	17920	122	983	
17815	48183	B	17921	1	1287	
17816	48184	A	17922	289	958	
17817	48185	A	17923	1	5079	
17818	48186	A	17924	1	255	
17819	48187	A	17925	1892	2448	TESRCADGAGSVDVGTEPVVP RVELVAKWPGSRAGGTGLGCS PWVGAGCVGGLGPQARLSGPT ASTEASAKAASLASLMWLRV RL*GACPFARTGATAPSSSKGP ELGVSGLRKATWMGRGSGCCT RGLGAGEWRAVPESCLDESS EDSDDRDHAVPFSSSSCRRSML RPRRVARGLCRRRGV
17820	48188	B	17926	52	888	
17821	48189	A	17927	929	1148	TVWNGTCGLPFSSLMKCMVIM IMRAIQKKMMSKPDITLVGW N*RRASVFSGQPRVEKVHSAEE NQVSRTSSS
17822	48190	A	17928	125	937	RISMVFPWCFCSCSRTLATTPAP TVRPPSRIAKRRPSSIAIGWIRVT TILMLSPGITISTPSGSSMVPVTS VVRK*NCGR*PLKNGV*RPPSS LDRMYTSDSNLHGLRPAVSPVT NTPA/SDGYYSHDGSLAQVDLS ANYHEGQYTSAGLSLQGGATL TTHGGALHRTQNMGGTRLLID ADGVADVPVEGNAAVYTNM FGKAVVSDVNYYRNQAYIDL NKLPEAEATQSVVQATLTEG AIGYRKFAVISGQKAMAVVNF AEGKVS LAVV
17823	48191	A	17929	3992	4213	VPAIQQKFPRSWKLGGERPPKA FRLRLSAA*RKSVP*AQRSLAD/ SGMPLRLEKCLDTF*TQIV*SAF KIQREGS
17824	48192	A	17930	1	1636	
17825	48193	A	17931	1	900	
17826	48194	A	17932	1	939	
17827	48195	A	17933	427	1250	

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17828	48196	A	17934	521	805	LCPSNTSPLSCLLCDLVASTEM APMRVFQPAKPVNA**LFATIEP PYSVNKLLKPY**PAWTKSLCL LAPSIWLRPAAKSYFDTPGCSIF GTAA
17829	48197	A	17935	1	2052	
17830	48198	B	17936	1	573	
17831	48199	A	17937	1	1278	
17832	48200	A	17938	161	659	
17833	48201	A	17939	1	588	
17834	48202	A	17940	695	1281	KLKPYSWAFSRQSGRSVILTPPR VTVVVVAGFGPIPVFGTVMVRP GWAAP*FLPVASVYFP*AGLAG FLKKNRGCCANPAPPPIRRPIMY PP/MQRLQEPPADWWACAWFS GKD*\WKKSPNCTRCA
17835	48203	A	17941	261	2045	
17836	48204	A	17942	1	637	
17837	48205	A	17943	31	280	
17838	48206	A	17944	1	582	
17839	48207	A	17945	1	2496	
17840	48208	A	17946	330	507	
17841	48209	A	17947	1087	1875	
17842	48210	A	17948	1	476	
17843	48211	A	17949	1	537	
17844	48212	A	17950	2	492	
17845	48213	A	17951	1	1101	
17846	48214	A	17952	2538	2833	TRRNWRPIQSSEESWRAAGSST PLTTQNRQQTAGIY*RSR*TAA RR*SPALPRRNRLATAGWQY ATQTRQQRVLPQL*LSAPATRK NRLLANAWLTM
17847	48215	A	17953	125	1831	
17848	48216	A	17954	2	825	
17849	48217	A	17955	1	840	
17850	48218	A	17956	1	1725	
17851	48219	A	17957	463	1824	
17852	48220	A	17958	2	117	
17853	48221	A	17959	1	2640	
17854	48222	B	17960	223	1560	
17855	48223	A	17961	638	746	RIP*MT*WS*KPWHKNYMMHA QASVDNLIKWKKGYYQ
17856	48224	A	17962	385	514	
17857	48225	A	17963	17	225	SSPSKFTVAFFASLVMASAVSL ALSLRSLTTLIS/CGLVLQEERT DDALVEQFSPIRRARGHAPQQE ATEM

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17858	48226	A	17964	1	521	LVFLVLFVGFSLSCFKSTYTLTY GDSPSLCDGLLH*IISRIDTNKPA DNSISGIRDVGWVAKSYQVA/V GERLHNRTPGTSHQSDTRFDF* LC*PGSACPNLVSEHERPQANM LVEASGRLLA*YQNALSCSFGY GVGLVRRQDFSSLGRFLQSAFA SNRY*QVVWVFEFQQVS
17859	48227	A	17965	267	554	LRFRFTRAVGRIFHRLDLLVLL GCNRYGRGGDHGLCSVLVPR SLRLGRLPGGDSAAADAQSRH REKCR*DGVLVCDQNRQTPV WKPHQEDVQV
17860	48228	A	17966	1	915	
17861	48229	A	17967	1226	1399	SDSNISICTCAQIH*KHFRII*NCT L*EVEP*RLS*M*LQRKCVQGEP SKVHSLWGI
17862	48230	A	17968	828	1070	SFFDYQTSALEHARR*LHCRT* NAGWLPHRTDRSSGYHGRCS AAGRCSSGDHSSYQQQNPAEK LPAGHPQRSGSPERTG
17863	48231	A	17969	45	1198	
17864	48232	A	17970	348	508	RLFRWCPM*S\WASYFPPESSQL PDSYWLF*ECNLPTAYNSQNII RESHAIYS
17865	48233	A	17971	251	601	MAKKMSLSIAVFWRRLYAYY PHLR*KS*TNW/QWWSALS*A V*PNRS/IDSRWSIIWSVLFGML V/AT/ALAPAFWLR*Y*KKSFS WNPTKSPRCLSNARPCCSLSKK ASLPWTIAARSR
17866	48234	A	17972	1	2121	
17867	48235	C	17973	1	1710	
17868	48236	A	17974	1	1335	
17869	48237	A	17975	1	1497	
17870	48238	A	17976	2	824	
17871	48239	A	17977	1	1965	
17872	48240	A	17978	1	3555	
17873	48241	B	17979	197	2021	
17874	48242	A	17980	1	348	
17875	48243	A	17981	1	891	
17876	48244	A	17982	1	679	

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17877	48245	A	17983	3	2502	EAIREVSNPIPQEEIWITHREAVP PVQLLTGWCVTAKAPDISAIS ALTAVKHGNCSSLTPLLNPFGS DVIVCAEMDEQWGYVGAKSR QRWLFYAYDSLRTTVVAHVFG ERTMATLGRMLSLSPFDVVIW MTDGWPLYESRLKGLHAILV TFEEKFQEEPVKKQIIMVSISVS DTGGKKEPKLINLSSKTNGLQ NTTEAQLCETKSDFELSFGFN ISIDTEDMKTGCCFQEQSVRRA YFKATSSPRRGLITKLTTTRVDG YVADDPSSRRYSGHGDLLWPNA GNSCVETTVGSLLCEVQAATP HTLEGKHGCRNKEKKRLTHSG ACTYTFSELGLELWAWNCGKT EVNLGAVGKGVGDRGFKKI AKSQFTCSVLYTFTIKQGISLTL WSKVMHILEHLKENSQKLT TRYQRVFGPTWLHETIFCKVAL TATLLAELEKTSTLQTFLDKIWI LGAQQHTGSQEPSQALLTCDPA WKKALRKVTQKGGAFFGVDN LGSSLSPTDLLYEEQRLTSLSG SWFPICVMVELTLRAGSSPGGR LYVEFDQAVTKEPRFLQYKHY WDGAVAGSSILRQDSFVAEAST TITRIESPSVPSRSSTFLDDFSITQ QHRRHAGLSVMLSLIISPPVRGL CQERTLRRDFRERLMYLDLEY QSGYCRLRTAGSEMQMVPDVL IFAHRSGLAGLFPGLDRRLVNA
17878	48246	A	17984	10	211	GSQSTIFTFAARWNLWANENT DTSISPLGVGEQRHCSSP*RFPD SDRCSPWSPRSQGNQSPQTW Q
17879	48247	A	17985	1	1725	
17880	48248	A	17986	1	379	
17881	48249	A	17987	3	273	
17882	48250	A	17988	3	1157	
17883	48251	A	17989	76	378	
17884	48252	A	17990	1527	2005	
17885	48253	A	17991	578	1312	
17886	48254	A	17992	1	1758	
17887	48255	A	17993	1	2433	

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17888	48256	A	17994	1	537	SQEELLQQALVAQLA/HSEQLE GVQLPEPDEPSARHALPANEPRI VLNNGVVSYNDRPILNNLSWQ HIGYVSSSLHLDYRVSTTVRN ILSGYFDSIGIYQAVSDRQQKLV QQWLDILGIDKRTADAPFHSLS WGQQRLALIVRALVKHPTLLIL DEPLQGLDPLNRQLIRRFVDVLI
17889	48257	A	17995	1	536	
17890	48258	A	17996	1	1319	
17891	48259	C	17997	74	341	
17892	48260	A	17998	3	103	
17893	48261	A	17999	1	745	
17894	48262	A	18000	1	663	
17895	48263	A	18001	2	297	
17896	48264	A	18002	8	340	VPANLSAIALFRRESVTPLAAL AASPVCAGRFVLLKNHRRDLP* ISVPVNSSSNSARSLVWHSGRQ QIAPDWSSKDDFMRLGKPNRFS VLLLATWIR*STVIRRSPTFS

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17897	48265	A	18003	1	1341	MVHRFGIRVRFVALGFYQDVIL PVRAHRHEWGHYVHLCA SIQR QIDVSFARDATSHSSCPVTGVR FWGYPF AANKVVIAGFELEGET MTRPGLICAEGGLLMIVSLRS ELYDSYHEFTRQ RVTEIVEKAA NHLPAVVEMMTLHRCAINRHN FVRRVGPAGISTFFASSPDGVN AGFSTFRVVFTCQRSRPLQRHS HADVQTATLLLNTVNLEQKQA NAILSGLSDMIPNSSPESAPEIQL LQSRMILGKTIAELNLRDIVEQK YFPIVGRGWARLTKEKPGELAI SWMHIPQLNGQDQQLTLTVGE NGHYTLEGEEFTVNGMVGQRL EKDGVALTIADIKAKPGTQFVL SQRTELEAINALQETFTVSERSK ESGMLELTMTGDDPQLITRILN SIANNYLQQNIARQAAQDSQSL EFLQRQLP*TL SKNRPTFSA A*/ DDMIPNSSPESAPEIQLLQSRMI LGKTIAELNLRDIVEQKYFPI/D GSRLGEINQRKTR*AGDQLDAY STTEWSGSATDTQVGENGHYT LEGEEFTVNG/NGRPASGKRWR CADYRGH*GQDQQLTLTVGEN GHY TLEGEEFTVNGMVGQRLE KDGVALTIADIKAKPGTQFVLS QRTELEAINALQETFTVSERSKE SGMLELTMTGDDPQLITRILNSI ANNYLQQNIARQAAQDSQSLE FLQRQLPEVRSELDQRKKNSTFI
17898	48266	A	18004	414	893	VFAQHGLTVAAIAAHARDRWF VGRTAHANPPVRCSTDGSGRVP VTRYSGFVAAAVILLTASPRGG ECSREAPLCSVSEYLLLQSAGE YAPAPRCVLRCPSPVDEDFVPV VPD*APPVEVALFLLRLTPVAR PADGGWLLAAIRPDALTSLAIV VLAAAR
17899	48267	A	18005	432	1108	
17900	48268	B	18006	1	753	
17901	48269	A	18007	46	282	
17902	48270	A	18008	1	1201	
17903	48271	A	18009	1	618	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17904	48272	A	18010	1	1045	MLCTKWDLGLEKNAGKNKN AYKWYGW PANAPDEPHIEQLV GECRVMRQLKRLISRIAPSPSSV MVVGESGTAIPVVS HAEFKGGF ADIGVHYLDWTSRTTEKSSTKS HKDDFGYLEFEGGANFSWGEM YGFDFWENFYNGRHNKPGSEQ RYTFKNTNRIYLGDTGFNLYLH AYGTYGSANRVNFHDDM\FLA GFGFQF*PAGGW/WGSNPFFAK\ RYTRSKPYYTGDNGYVAGWV AGYNFMLGSEKFTLTNWEYE FDRDATYAADFLPLYDVDCQD NGNLEYDTYSQPEWKHNLFDH YLAVLYRFKDESGKEQFSGAV VKTREATPGKEIEAITRRMLDFS PRLKLA
17905	48273	A	18011	228	430	YPRQHRQRADGSDRHR**/CWS A*IWANPTSNLPPCRFALTKRK RPILCAPPSRQSYAAWCRWEIRI A
17906	48274	A	18012	296	1178	
17907	48275	A	18013	1	1395	MPSDISLASCLRLATSRLFTDHR RQSDCMTAINRIPVDDEDNVR RFETHCANNVRTALHLFADIHP DVVLMDIRMPEDMGKALKEM RSHETRTPVILMTAYAEVETAV EALRCGAFDYVIKPFDLDELNLI VQRALQLQSMKKEIRHLHQAL STSWQWGHILTNSPAMMDICK DTAKIALSQASVLISGESGTGKE LIARAIHYNRRRAKGAFIKVNC AALRESLLESELFGHEKGLFER ANEGTLLLDEIGRM/PLVLQAIL RILQEREFERIG/GHQTIK/VDIAS LLAPTRLQAMVKEGTFREDLFY RLNVIHLILPPLRDRREDISLLA NHFLQKFSSNQDRIIDIPMA MSLLTAWSWPGNIRELSNVIER AVVMNSGPIIFSEDLPPQIRQPV CNAGEVKTAPVGERNLKEEIKR VEKRIIMEVLEQQEGNRTRTAL MLGISRRALMYKLQEYGIDPAD
17908	48276	A	18014	1	771	
17909	48277	A	18015	1	2154	
17910	48278	A	18016	859	1014	IKTGETHPGIGPSVM*RHASKAD LTHRHC GG IPEPQSVSFGSSQH GGGQFPPL

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17911	48279	A	18017	1224	1520	SPLVNQ*GA*KFFSRGNLFPQG ETH*KTKGVPCWTRYDPLKRS DSAEIFKTPANASGR TSGSLGC AAQLEK VADGRDLDEKLAEAG IGGSNKTSVWQG
17912	48280	B	18018	182	2392	
17913	48281	A	18019	72	266	
17914	48282	A	18020	600	914	PYRGSPRNHQLCDHCSHRLSE DPFVRYSNHCQSISNYRCDKPP VRPLSPLHQKTDRKHHQRPDRP FQWSAAPAHGRWRSGDS*ETP LHYAQPAKLRWLWVNY
17915	48283	A	18021	1102	1171	LLGYGQQPPASNLLSEG*RSVV L*ISALRM*ALPPQKSSDAPNG WLPNRWPISSTHMIR
17916	48284	A	18022	1	1279	
17917	48285	A	18023	1329	1403	
17918	48286	A	18024	442	918	
17919	48287	A	18025	3	1345	
17920	48288	B	18026	436	988	
17921	48289	A	18027	637	1086	
17922	48290	A	18028	1	321	
17923	48291	A	18029	1	845	
17924	48292	A	18030	298	581	GARAEARAGSGQGAGLGVSSP VRWRGWSDKGAERPGGPLSPL REVS RAGPSG/HAARGQQPGRP RFPPPGPRPPRRRCPCTRAPGG AAGGGPCL
17925	48293	C	18031	450	604	
17926	48294	A	18032	1279	2253	

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17927	48295	A	18033	1	1957	MAQFHVSHPPAEWPRHVLLLM ADSKNELQNMNTGQTCGTRQT LKSKLQGWKPGIQSDPGSQG HPRCLKTFPLVAQSSTQERNHV MEKAVLKSQNWAIIIEEFITKIG WFPDYSKGKVKYLSSPKSSCTTV LQVTHFSLFFHPNPDELVSKIKV WSKHRLYQNNSEAFLEVQIPEP KCEVYSMRTMGRRQPGTAMD LNAGGSICNVPRTLHLTGESTF RDRQRVGAYLDIRGWYILVLV VDKEKLGIPGQKQNSSKILFGSE KLKQWVYVKNHAKESITQEAM GIWVGQQRKRQPLGYEERKLT NRKDIHIKNPSVCHHHQRPKVD KTTKMGGKQSRKTGNSKNQST SPTLKESSSSPATEQSWTENDFD ELREEGFRRSDYSELQEEVQNN GKEVKNF GKLDWITRITNAK KSLKDLMEKTKARELCDERTS LSSQCNQLEERVSVMEDEMNEI KQEEKFREKRIKRNEQSLQEIW DYMKRPNLRLIGVPESDGENGT KLENTLQDIIQENFPNLRQANI QIQEIQRTPQRYSLRRATPRHIIV RFTKVEMKEKMLRVAREKGRV THKGKPVRLTADLLAETLQAR RQDTHRLKIKDGGFRFTKQMEN RKRQGLQS*SIKQNLNQQRSK ETKKAIT*W*RDQFNKKS
17928	48296	A	18034	1	2838	
17929	48297	A	18035	1	897	
17930	48298	A	18036	26	308	
17931	48299	A	18037	749	1020	
17932	48300	A	18038	1	1773	
17933	48301	A	18039	1	1890	
17934	48302	A	18040	1	756	
17935	48303	A	18041	399	660	CPPEAVMPRRHEPVWEMTGFF LPDVLLSDSSDTSEGFRHLHLET WAPFLCRCLSLRLIS*HHHQT GNSSPPVSASQHQSVDRDSL
17936	48304	A	18042	909	2005	
17937	48305	A	18043	1	490	
17938	48306	A	18044	104	775	
17939	48307	A	18045	170	451	
17940	48308	A	18046	1	207	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
17941	48309	A	18047	146	678	LGFLRLRLSEMPRKQGDYRTRIWK KFEDGLSNVLVIQLNKLIICVM CLVRDCDVLKTYFHR*SGLLP KDTS/RPFTRVTVQWGKKNDQ TFQGLDGTSELTLIPEDPKRHC GPPVKVGAYGGQVLHSHKWA PIYHFLSSHNCNGFCYISIANLPKK FGQNIKECLTNNRIVPFNCVQD
17942	48310	A	18048	270	1444	
17943	48311	A	18049	700	1062	
17944	48312	A	18050	3	1096	
17945	48313	A	18051	1	1500	
17946	48314	A	18052	1	6215	MEDNLISINKIKILLAVSDGEIDE TFLKQLMFNSVPVQNEGGSFN FEGVKAEFRPGTQTQEYIKGME DSSSEVTNREVTTDNPTISVT NKTLsAIRIKMFMPRGVRIESN GDKNGVRVEYEVQQAVDGGSF ETVLTVDVIEGKTMSGYDRSRV NLPNFNNQVIFRVVRKTPDSND SNVVDIAQVRSYAEVIDAKFRY PLTGLLFVEFDSKMFPNQLPTIS IRKRWKIVNVPSNYDPESRTYN GNWDGTFKKA
17947	48315	A	18053	1325	1417	
17948	48316	A	18054	1	4971	
17949	48317	A	18055	251	1091	
17950	48318	A	18056	1	2277	
17951	48319	A	18057	2	448	KNDKGDIIVTTKSGGRGTSTVS FKLLKPEKI/GSKFSQKDLEMLF HGMRADFTSENFSAAWYLIEN HSNTSFEQLKMAVTNLKRQAN KKSEGSLAYVKGGLSTFFEAQD ALSAIHQKLEADGTEKVEGSMT QKLENVNLNRASNTADTVYE
17952	48320	A	18058	124	984	

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17953	48321	A	18059	142	1393	DKKPGMVPPPPGEESQTVILPP GWQSYLSPQGRYYVNTTNE TTWERPSSSPGIPASPGSHRSSLP PTVNGYHASGTPAHPPEAHM SGRKSTGDSQNLGSSSPSKKQS KENTITINCVTFFHPDTPMEQQL LKPTWSYCDYFWADKKDPQG NGTVAGFELLLOKQKLGKQM KEMSEFIRERIKIEEDYAKNLAK LSQNSLASQEEGSLGEAWAQV KKSLEADEAEVHLKFSAKLHSEV EKPLMNFRENFKKDKMKCDHH IADLRKQLASRYASVEKARKAL TERQRDLEMKTQQLEIKLSNKT EEDIKKARRKSTQAGDDLRC VDLYNQAQSKWFEEMVTTTLE LERLEVERVEMIROHLCQYTQL RHETDMFNQSTVEPVDQLLRK VDPKADRELWVREHKTGNIRP VDMEI
17954	48322	A	18060	1	435	
17955	48323	A	18061	3	926	
17956	48324	A	18062	3	693	RPPLAYLRDGDARAGLNLGLQL AVLAMLSSSRKMFCKKSGQSYS PSRVLITENDVKEGLQRSHILYD RAGEEHYNCISALHKSMRGSD QNASLYWLARMLEGGEDPLYV ARRLVRFA\SEDIGLADPSALTQ AVAA YQGCHFICMPECEELLA QCVVYFARAPKSIEVYSAYNN VKACLRNHQGPLPPVPLHLRN APTRLMKDLGYGKGKYKNPM YSEPVQDEYLPEELRGVD
17957	48325	B	18063	1	2020	
17958	48326	A	18064	19	404	
17959	48327	A	18065	1	407	FRATITSAKMGAYKYIQELWR KKQADV MRFLLRVRCWQYRQ LYALHRAPRPTRADKARRLGY NDKQGYVIYRJRVRGGRKRPD PKGATYGKPVHHGDNQLKIAR SLQSDAEPA GRHCGALREQSS Y*VGEHST
17960	48328	A	18066	53	431	AKKGAYNYIQELWRKKRADV MRFLLRVRCWQYRQLSALHRA PRPTRPDKARRLGYKAKQGYVI YKIRVRGGRKRPVPKGATYG KPVHHGANQLKSAQSLQTGVQ ERPGHP*YAMRVLKAYRARP
17961	48329	A	18067	5	328	

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17962	48330	A	18068	93	836	AKMGAYKYIHELWRKKQSDV MRFLLRARCWQYPALHRAGTE WQLSALHRAPRPTRPDKARRL GYKQAKQGYVIYRIRVRRYI*D SCSPWWLKTAQFPKGCNFTGK PVHSWVFNQLKSFASKAFQFR WQEGGEAWDGTCCGGLLEEFNL FFNWVWV/GKIST*QNFFEGLIL I/VIPFHKS*SEENPDTQWDQPN QSHKHR\EMRG\LTARPEKSRG L/GKKGHKHFHTIGG/SLRRAT WRRRNTLQAPPLPLI
17963	48331	A	18069	1495	2055	
17964	48332	B	18070	125	2530	
17965	48333	A	18071	345	800	RWRLQNLSFCSSCSGSGSEGAT CFARGR*RPPGNSLNVS RMGTR SSYSCRRHSPAFLSWGKGRCHL CNKAHLLAGA*HYSFLSGSAPY *N*VNGQI**R*TAHRSTPDAPT GH*NCCS*L*CHSY*QRA*PGY RHD*CRMCC*CADC SHAC
17966	48334	A	18072	181	1687	
17967	48335	A	18074	205	1734	
17968	48336	A	18075	1	705	
17969	48337	A	18076	590	685	
17970	48338	B	18077	1	881	
17971	48339	A	18078	1043	1248	ITLGIMAIFTVLILPIEHGMVFH LFVSSFISLSSGL*FSLKRSFTSL VSWIPKYFILFEAVVNGSSL
17972	48340	B	18079	1	1977	
17973	48341	A	18080	805	1153	AWKVLPPFFVSFCFLSSGL*FSL KRSFTSLVSWIPRYFILFEAIVN GSSLMIWLSVCLLLVYKNACDF CTLILYPETLLKLLISLRRFELLF LSMFSASFRSSCKAGLVVAESL
17974	48342	A	18081	471	1442	IWSFHIVPYFLEALFV*GVRKGS SFSFLHMAGQFSQHLLSRESF PHCLFFSGLSKTR
17975	48343	A	18082	188	355	
17976	48344	B	18083	1	1677	
17977	48345	C	18084	35	1816	
17978	48346	A	18085	557	724	
17979	48347	A	18086	179	346	

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17980	48348	A	18087	135	1461	INRIYILLSTTSHLFQN*PHSWK* STPQQM*KNRNYNKLRLRPQC NQTRTQDEETHSKSLNYMETE QPAPE*LLGT*QNEGRNKDVL* NQREQRHNIPELGH1*SNC*QD **RRKERIK*MQ*KC*RCNKN AKGVITTDPTIEIQTIREYHKHL YANKLENLEDTDKFLDTYTLPR LNQEEVESLNRPTGSEIEAIINS LPTKKRPGPDGFTAIFYQRYKE EQRKYLGIQLTRDVKDLFKEN YKPLLNEIKEDTNKWNIPCSW IGRINIMKMAILPKVIYGFNAIPI KLPRFTFFTELEKITLKFIRNQKR ARIAKTILSKKNIAGGIMLPDFK LYYKATVTKTAWYWFQNRDID QWNRTEASEITPHIYNHLIFDKP EKNKKWGKDSL FNKWCWENW LAICRKLKLDPLIPYTKINSRW IKDLNVRPKTIKSLEENLGIPFR
17981	48349	B	18088	1	2016	
17982	48350	A	18089	659	826	
17983	48351	A	18090	3531	3878	
17984	48352	C	18091	1	2793	
17985	48353	A	18092	1607	1774	
17986	48354	B	18093	1	1666	
17987	48355	A	18094	1	1068	
17988	48356	B	18095	1	1549	
17989	48357	A	18096	557	623	KKWINYWTHTPSQD*TRKKLN P
17990	48358	B	18097	1	1231	
17991	48359	A	18098	263	1461	GGSSCYPWEATIRTA KMVTLR K\RTLKVLTFVLFI L TSFFLNY SHTMVATTWFPKQMVLESEN LKRLIKHRPCTCTHCIGQRKLS AWFDERFNQTMQPLLTAQNAL LEDDTYRWWSLESVMFSVTM GFCLQRPFGDKQGTTPVYINQ TGRDLTQQQLQREKKPNNLN DTIKELFRVVPGNVDPMLEKRS VGCRRCAVVGNSGNLRESFYG PEIDSHDFVLRMNKAPTAGFEA DVGTKTTHHLVYPESFRELGDN VSMILVPFKTIDLEWVVSAITTG TISHTYIPVPAKIRVKQDKILYH PAFIKYVFDNLQGHGRYPST GILSVIFSMHVCDEVLDYGFGA DSKGNWHHYWENNPSAGAFR KTGVHDADFESNV TATLASINK IRIFKGR
17992	48360	B	18099	1	4855	

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17993	48361	A	18100	571	4189	FSLKRSSTSLVSWIPRYFILFEAI VNGSSLMIWLSV*AKILVQRA* VLA FHPS*LR FVKDQVVVDMW HYF
17994	48362	A	18101	7449	7626	SFRSRLFSFHVVVELF*VSFLILSS SLIALWSERQSVIISVLLYFLRS AFLPTMWSILE
17995	48363	A	18102	63	329	SGQRRKEVPSPTLPAPPFILKKK EWPDPPRSFFSGGHWAKSSCPS DCSSQLMAC*/CKNAKHQKDN SCLI/STHMKGNSEK*NSGYQ GLG
17996	48364	A	18103	2	618	GAFLLEVATAAGLSAGLTRLGS QVGGAMRRSKADVERYIASVQ GSTPSTLQKSMKGFYFAKLYYE AKEYDLAKKYICTYINVQERDP KAHRFLGLLYELEENTEKAVEC YRRSVELNPTQKDLVLKIAKLL CKNDVTDGRAKYWVERAAKL FPGSPA IYKLKN/DGWVRGQM VPKPDDEGVQVRGRSGRPDAG WRLNRRSSVGGSAW
17997	48365	A	18104	1	995	
17998	48366	A	18105	1	513	
17999	48367	A	18106	62	521	
18000	48368	A	18107	1	375	
18001	48369	A	18108	76	480	LVKVCHCTYHHFLTGVVSLPR DGGKGAPCWGRARSPKSALLP YLAPGRG*VGTYEVQN/PNGTS PVQSPATDVGRSPALGNQEP/G T*SPGPQIGRGVTGTARPHTGV SRDSWRRPPSFILNAVANIPKGN APIPKE
18002	48370	A	18109	445	1128	
18003	48371	A	18110	784	1189	IPLGKLLLKPVGAPQIERFPFQIP VPLCSLSFSPSHSPSSSARS*VRQ ES*LGTPGSAPTGSP/TSHHPSAS SPPHPSAKAAFLSFVCFLCS*PPP SSCHPCGLGPGPDPSQKMMICT VAHLNQSLIFTVVKVHLL
18004	48372	A	18111	1	2088	
18005	48373	C	18112	169	213	
18006	48374	A	18113	1145	1229	
18007	48375	A	18114	1	975	
18008	48376	A	18115	1	750	
18009	48377	A	18116	288	368	
18010	48378	A	18117	34	168	
18011	48379	A	18118	479	1579	
18012	48380	A	18119	2279	2398	SDCSCPGL*GPPGRWHKRRKSG SPHLSTPEGTPALTSQA
18013	48381	A	18120	21	190	

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18014	48382	A	18121	1	1773	
18015	48383	A	18122	18	290	VAGTWPNFLKKVGIVGKYGTRYGASLRKMVKKIEISQHAKYTC SFCGITKMKRRAVGIWHCGSC MKTVAGGAWTK*V*FLVVFG SVWTT
18016	48384	C	18123	325	486	
18017	48385	A	18124	1	498	
18018	48386	A	18125	3	306	RQEIDSIHQVGVYCLALVPANT LPKTPLGGIHISQTKQLFLEGS LHPCNLMCPHTCVTNLPKPRQK QP/WCRPCFRDGWESGCWKTY STSCWKSGGTNRRE
18019	48387	A	18126	1	1197	
18020	48388	A	18127	1	390	NSRVDDFVAPGLSEAGKLLGLE FPERQLAAAVG/CSPMSGVIS MSAPFFLGKIIDAITYNPTVDYS DNLTRLCLGLSGVFLCGAAAN AIRVYLMQTSRQRVVKRLRTSL FSSILGQEVAFSDKAGTGELI
18021	48389	A	18128	1	695	SGFMDHLEEKADLSELVEKEEL GFFQYYRERCHQKVYHPITKPG GSAKDAAPGGGHHQAGPGQG GDEGIRMMFCVSPNRAFVVS VVPLVSIIDVIYGRYLRKLT TKVTQDSLAQATQLAEERIGNVK \TVRAFGKEMTEIEKYPSKVDHVM QKARKEAFARAEGVILNEKSFQ GALEFKNVHFAYPARPEVPIFQ DFSLSIPSGSVTALVGPSGSGKS TVLSLLLRLYDPAS
18022	48390	A	18129	1	2136	
18023	48391	A	18130	1	822	
18024	48392	A	18131	257	388	
18025	48393	A	18132	1	765	MVNALSLAARIHAEVPADESPE MTEGYEGFYHLASMKGTV ERADMHYIIRDFDRKQFEARK RKMMEIAKKVGKGLHPDCYIEL VIEDSYYNMREKVVEHPHIL DIAQQAMRDCDIEPELKPIR GGTDGAQLSFMGLPCPNLFT GGYNYHA/PSPKFSAVSAM LLASASSAGRCGESIFSPLA YTSSPIESDSCGPAL* RFLRH*/EIFLTQPVF/SE NEAIDIWNSPTASVSPLMP SRQNAVRELFLT TVRRPTGTD

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18026	48394	A	18133	1	1166	LTHWVYHLYGIQRILIHIPSTSQ PNRVRGDIPPLQRI VVPVTIVVQ PRLLIMLLPWQTVRLVQVMRV LLIKLVAPFIILPAPRRIAVFADE RQRQAPVVAVVKMNFSSRRCVF RLHLSGQLLHRQPALRKPRPAF TAHAVCPDFFLQPVQQPHQFSR EHHAVAVLTPFLLERLCQAAPL RFFPLAVLCLDPDERREASRLV YRLDTCGVSLHRRQPVSVPAIS LALPMLAILVVQTIFMALYAIF VTWRMMGKNYDAAVLAAGH CGFGLGATPTAIANMQAITERF GPSHMAFLVVP MVGAFFIDIVN ALVIKLYLMLPIFAG*PMKRR* K/SPPQQRQMPDTRLRLSSVSPA SSVLSGLLPVVG NVREYGVPGA ELPGSSPDRAVNPPL
18027	48395	A	18134	48	314	LVPMTWVIEASYSIMRKKVGE HPHFLDIAHQAMRDCDIEPELN PIRGGTDGAQLSFMGLPCPNLF TGGYNIMVSMSL*LWKVWKK RCR
18028	48396	B	18135	83	3044	
18029	48397	A	18136	1	1080	
18030	48398	A	18137	3	979	DAWADAWSKKADV KVENPD TKEKKPEAKK\VDAGGKVKKG NLKAKKPKKGKPHCS\RNPCP CKKEIGRNSRSGMYSRK\IAMYK RK\YSAASKIVEKKK\KEKVLA TVTKPVG\GDKNRR*PGVVKLP QKCPRIYP/SLEDVPRKACLSH GKKTPLVQHVEKNCEASIYPRG PF*FILTGRHRGKRVGFPESSL AKLAYLLC*LGPLVLKSEVPL\ R RTHQKFCHLPLSTKI\DISN\VKI PKHLTGCLLSRRKKLRK\PR\HQ EG\EIFDTEKEKEYE\ITEQRKIDQ KAVDSQILPKIKAIPQLQGYLRS VFALTNGIYPHKLVLNCLKNP
18031	48399	A	18138	858	1418	
18032	48400	A	18139	97	516	
18033	48401	A	18140	1	219	

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18034	48402	A	18141	110	768	NLFSGCVESTFRKQPAHQRRSR ARAETMQRRLLVQQWSVAVFLL SYAVPSCGRSVEGLSRR/LLKP MRPKNVHVPTKVTTYKRAVSE HQLLDKKGKSIQDLRRRFFLHH LIAEIHTAEIRATSEVSPNSKPSP NTKNHPVRFGSDDEGRYLTQE TNKVETYKEQPLKTPGKKKKG KPGKRKEQEKKKRRTRSAWLD SGVTGSGLEGDHLSDTSTTSLE
18035	48403	A	18142	338	661	
18036	48404	A	18143	443	661	
18037	48405	A	18144	474	531	
18038	48406	A	18145	208	317	
18039	48407	A	18146	1	807	
18040	48408	A	18147	1	1122	
18041	48409	A	18148	283	2204	ASPMAPTSLCVPTLLPSLNQTSS SSTAPTGKASWGWPMLRLPGL TTPWSLSLTW*SRPTFTSSPC SFVVLASPSTSLKCWPLSEGA
18042	48410	A	18149	208	1212	
18043	48411	A	18150	202	1677	
18044	48412	A	18151	1	3285	
18045	48413	A	18152	3	2206	
18046	48414	A	18153	1	1041	
18047	48415	A	18154	2	1460	
18048	48416	A	18155	1	792	
18049	48417	A	18156	51	362	AHGAAWPSHRKDRESADLGSD GQNGQDLWDGGGCRRC*RC DVLWCWAPHTFRHSYAMHML YAGIPLKVLQSLLLGQAPCRCG LGQNVGTALPLVSGGPMLFP
18050	48418	A	18157	609	690	
18051	48419	A	18158	1	2055	
18052	48420	A	18159	3	2236	
18053	48421	B	18160	406	454	
18054	48422	A	18161	1	2151	
18055	48423	B	18162	1	1215	
18056	48424	A	18163	1	594	
18057	48425	B	18164	1	1380	
18058	48426	A	18165	441	692	

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18059	48427	A	18166	2	1311	QHVRSTVTELWTGNFVNSIQTA FAAGIGWLITFCSKGGDCLTSQ TRLRLSGMLFLNSLDAKEIYLE VIHNLPDFELLSANTLEDRLAH HRWLLFFHFGKNENSNDPELK KLKTLLKNDHIQVDRFGCSSAP DICSNLYVFQPSLAVFKGQGTK EYEIHHGKKILYDILAFAKESVN SHVTTLGPNFPANDKEPWL DFFAPWCPPCRALLPELRRASN LLYGQLKFGTLDCTVHEGLCN MYNIQAYPTTVVFNQSNIEYE GHHSAEQILEFIKDLMNPSGGS LTPTTFIELVTQRKHTEVRI/V*F HCPGWPPWPRLWPMACKPRNL LP*SSRPLNT*SSLFCSSNQPDLR GPLLHRPLSLPRRYRGAQVPNP DFGHYSVSPSLIHGLHQCSHLFS HSPPPRVLRPPRILTSTGLPPSP RRSATDVHTAYPPTAD
18060	48428	A	18167	1	924	
18061	48429	A	18168	10	1254	
18062	48430	A	18169	1	618	
18063	48431	A	18170	1	460	MAAPMTPAARPEDYEAALNAA LADVPELARLLEIDPYLKPYAV DFQRRMFWMFLPFFTLAFSPSV LVRFHAADKDIPETGQFTKGRG LLDLQFQVAEDASQSWQKLYL LPNCSGQPHQKLVP TAQKFYIT VEWGTFFSVPGQVVGSEGSQM SVTVEGSESEDDKMYMTCSS ALLDSFALC**RHT*DWAIIYKR KRFIGLTVP/MWLRMPRNHGRS CISCLIALANHTKNWFPQRRSFI SQWNGVLFSQCLAKLWALKEV RCQ
18064	48432	A	18171	1	582	
18065	48433	A	18172	1	1578	
18066	48434	A	18173	1	1293	

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18067	48435	A	18174	344	1358	EAQSVTNHKRNSDCTFKEDNSL PVRKPSFLITNPGSNQGPFRFAGS PLGHEFTSLVLALLWTGGHPSK EAQSLLEQIRHIDGDFEFETYYS LSCHNCPDVVQALNLSVLNP RIKHTAIDGGTFQNEITDRNVM GVPAVFVNGKEFGQGRMTLTEI VAKIDTGAEKRAAEESARKGIR TGLMGERFGGQILDTVDIENYIS VPKTEGQKLAGALKVHVDEYD VDVIDSTGTRSS/AISGFFHTYDS NSPTARCAPT*QNCAPSPSGEY APGEKAMRRITLVWRHCDY/PL CNAGNFVSMISRATSNTIATMII *GVCTDNTRLCLYALNCSGDIL SRTSCD
18068	48436	A	18175	1	1561	
18069	48437	A	18176	884	1171	PRRLNNEHDKRLMSWLHCLVP HHAKWLQRWQWQSAKVV*FA *IRAVNFVTAYRAIIYQQSRKQ HRYLRSACHGRSITVITQSPTK SSATKMPEN
18070	48438	A	18177	274	416	QADDDADNQSGDTDAAFGALI Y/CESDDL*LPPLPKPLCVM WYQTM
18071	48439	C	18178	24	509	
18072	48440	A	18179	1	1932	
18073	48441	A	18180	1	2583	
18074	48442	A	18181	1	495	
18075	48443	A	18182	36	798	KQRHSCFWSCWFSRAG*LGEL V*NPEIA*RP RPQQQT VSGNG AWSGKAPRRRHSWHY/YTISFQ KLPLVECTNAGPIF*VAKAGRK CSIKPPLTSRSYITD*PVSLRSQ LTGR/AGNFVTGW/QQLDEEIR YTMRTTVNAQTRDRKGVQPP TTWIFNDTKDQLERRIARLETG MAWAEPPSRTRHLISNCQISET DIPNVFAVRVNYLLYRAQKER DETFYVGTRFDKVRLEDDTG ASWNGNRTGSAGIISIT
18076	48444	A	18183	114	724	ARTRVPHFPGHETAGGAAHP HLSLLGQDPGNQTQLPGGRGGI PGGRGGGRGGGGGDDGRRR ALRRQQVPVLCVQRAGPAMDA AAPRHSSPDRERPKDQEVHLRL PGHASHSPHLGRHAGQPAGPA GLWQAPGLRHHLHAGIQPPE/V TNTTLTALT*TRRCPAFSSGTVK PLIFIWNLAAGPPLLRKGAASIW ICSCSIFQR

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18077	48445	A	18184	1	2130	
18078	48446	A	18185	2	433	EMTLDSRVAAAGDLFVAVVGH QADGRRYIPQAIAQGVAIIAE AKDEATDGEIREMHGVPVIYLS QLNERLSALAGRFYHEPSDNLRL LVGVGTGTNGKTTTTQLLAQWS QLL/GRNQRGNGHRW*RPAGES DPDRKYNRFGSRCSA
18079	48447	A	18186	114	586	SYITALGQFSRSGIQLLDRLGNF GTGWPNFDRKRFGSTMRTTVN GQTR/GPPQRRP\AADNLDF**H QRPAGAA NRPSGNGHGLGRRRA AVTHPSLNQQLPDKRNRHPKRI CCAGKLSALS GTKRSAMKHSM LERVSTKFVAVWKMTTGACWN GISSWIKR
18080	48448	B	18187	1	3577	
18081	48449	A	18188	2	861	YHSINAASACSALHPVAFILT CRTCSSSLVATTSTMRLPNTLP DLIISPVESILSTSFCVPAFIRE PVTTSAPTIGVMANSAVVETAL PGLQEIPTRVQPSWYAYSSPAIT YGVVRPLAAMP/SHHILCR*INIF QIINTAFPAIFRAFHRLNGIFSA SNQTNHQTRFHAVCGRTFGDV GWVAKSYQVAEERGSITEHQV QGHQSDDTEHFHGGIEIERQQQ HYHRQRGDPVGEIGEPELSISR RHHVCHTGYNPAEPVSPAGEIS NGTANGNKLNMVSVCEIAP
18082	48450	A	18189	560	2021	
18083	48451	A	18190	525	804	GG*CRNWCDHYANGCRDTS LYDKLAELGPQGLSPR*NNWQ TARRNQSSGRNSCHLRREVE*R RLDKALRRIRQFSAPDEGAKCP WPGIIDCSNHFA RLRCQYGRFL EVTSAGDEKPYPLYDHHVGLV VEQLRCITAKVRTRHFYVVLK SIHPAVAGLPALRDCGELFNSV YCRKPATGPQLQADVMVVVAY GLILRKQCWRCRVLAVSTFMFT AATLARCCTNPTLTRAGDAET GVTIMQMDVEIPVVRCTTSWQ SLAHKAYHHVETTGRRHGETR VQDETLV TYAEKLSKEERVL TG HFRQHSLNAA LRFSMANELA
18084	48452	A	18191	1	266	SQYPLVAGHEVIGRVVALGSA AQDKGLQVGQRVIGWTARSC G/QLRRLY*R*SDQLRARCGAD DYESRWLCREVACGLAMGDST ARKY

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18085	48453	A	18192	5	385	
18086	48454	A	18193	330	598	VMRFAIVVTGPA YGTQQASSAF QFAQALIADGHELSSVFFYREG VYNANQLTSPASDEFDLVRA/S ATTECATWCGAEYLRSGSITPW RC
18087	48455	A	18194	1	2652	
18088	48456	A	18195	1171	2091	
18089	48457	A	18196	486	837	
18090	48458	A	18197	1	2943	MAIYKQSQHMTVEVVRCPHHE RCSDS DGLAPPQH LIRVEGNLR VEYLDDRNTFRHSVVVPYEPPE VGSDCTTIHYNMCMSSCMGG MNR RPILTIITLEDSSGNLLGRN SFEVRVCACPGRRRTEENLR KKGEPHHELPPGSTKRALPNNT SSSPQPKKKPLDGEYFTLQIRGR ERFEMFRELNEALELKDAQAG KEPGGSRAHSSHLKSKKGQSRL GTRFLCQPAVTVIPVKIVRVTG DTVIRPHAEGAVRVQLRVGQA VTCRVCGIRDADIQIRCGGVNA GQPAGGAVAVTPGLARAADAD EFAVVVPGQPFHGGQAVRYTA VRQPLRVGRMSGLMLAKTCFR LQVMHRLTLTVFSQKVFTESIE VVEALKVNLMRVFLRRMDLRQ HRKMIMIDNYIAYTGSMNMVD PRYFLRDALPHCPNPLTGPTFA VLEKLGYPHTFVSTDFNTVALD VKTFGIKANDDKAKLKALGEIA HACVDATIIYCKSPTVAGLVAR ELIKLGHGTPTENPHVYWSPLE TVLACILARYRGHCSNTLATNS MLENCAFC SAPPRSLKESTLSL NTVVIYDNRDGT RSIDKFNRFCI HAFPKIIRNAIYEVEQHT*RACR YQ*DVGW FNIYQPGISLAASKH CSTSSR*RWI*LDWI/CASASLL DEATAAAEAMAMAKRVSKLK NANRFFVASDVHPQTLDLMSY
18091	48459	A	18198	643	776	
18092	48460	A	18199	1	1257	
18093	48461	A	18200	3	346	
18094	48462	A	18201	1120	1335	
18095	48463	A	18202	312	1108	
18096	48464	A	18203	1	744	

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18097	48465	A	18204	381	1112	GVEPSPTNPPPPATAIPRATCVA AARAASPPSPS*SHQPHPPPLAYD RCST*PTPTTTAGQDHDHGR WRSAPAPRSDHLSMDLQE/RSM SLLPLILSSTRSGSNPLRSTFLSR SRSISKNCSAEV*SNNSAGVGTI STS/RSTYDINRADTQVRRAVN NYDIIVMSNSFNQSEHQVWIG GQF/ILHQICPLTQFQYGAEPDR KE*CQAPASKWALLHK*HRPPF QDRKAGECLLHEYEDLYPSVIH
18098	48466	A	18205	2	307	HPARHKFVKGSSEHRKSPVKPP PIPSH*PP*PENTNPMRPLPTDP VTNLRSLMTGRQRFTPYNNVS RSDPSTTARSSADRVNASEYP TSSEETSGRSSR
18099	48467	B	18206	1	723	
18100	48468	C	18207	127	1410	
18101	48469	A	18208	1	1773	MGKKQSRKTGNSKNQASPPP KERSSSPAMEQSWTDNDFDEL REEGFRRSNY\SSY*EEIRT*WQ TSLKALKRN*MMM/ILLASPSR TPISGPNPAGPKFVKAATT GKARQRFHPATTTFHGRTPAPP LAHPAPTVSTPASTQHPARRHQ VARPDRSSTPLPARIALRVFCPT PSTAPPEHPRQNPAPQTD LPGADDVRVSTDPERRHPHPT NTTTPGPRVLRKELNRPRPI HHRRRRFHVQRAWQLPVPHRH HHLDTSHTRRLRMTDVRLD RPQQRPPRITITTVGGDQRLRL DRSYQPESPCDGLRQLQMAG RAPCSPLSMLVLEKCDNLKTCH TSHGSVMAETAVINHKKRKN PRIVQSNDLTEAAYSLSRDQKR MLYLFVDQIRKSDGTLQEH CEIHVAKYAEIFGLTSAEASKDI RQALKSFAGKEVVFYRPEEDA GDEKQNAKNEHGTSSSLPTQFK TDHMESQKDHPHKEETSPKVP HLVQESQKDHLHKEATNLKVP HHPGPKPQGGPPQEGNKPQRP PPGRPQGGPPPGGNPQQPLPPPA GKPQGGPPPPQGGPRHPPQGG

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18102	48470	A	18209	944	1577	RLCCLEISSTGYPKSSISSSKYPQ IPRAGAQCSQAV*SGSNPLRSTF LSRSRSISKNCSEV*SNNSAGV GTISTS/GSTYDINRADTQVRRRA VNNYDIIVMCNSFNGQSEHQV WIGGQF/ILHQICPLTQFQYGAE PDRKE*CQAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPTHHAYD
18103	48471	A	18210	3	634	DRVFDGSGSKWRSEQDWAAAK AVGQCSENGDWRCNGRYP ARGPAVPA*PSLCLHHPR*RCT CCMPVYR
18104	48472	A	18211	3	255	
18105	48473	A	18212	101	547	TSVELMDLCPIRLCRTFSGIPAY SMCIA*EWRNVCGVTGTENVT PSAAAAATASPIQVLTVLSVTS QIRAFSVLPVRLRRSMLSRLIN TCRTEYPRCAVVCLLWKDAVS CLSTTFCARLCGQNTWLPRPCR HVNRAASDASVSLSTVT
18106	48474	B	18213	1	1113	
18107	48475	B	18214	220	1173	
18108	48476	A	18215	1	509	MPNHKAILIKFKKTEIIPITLLDH STIKIEINIKKIAQNHTITWKLNN LLNRYFWPLTVSLCEMCKDFYS LGIEFSRFPQLQELQNKDCALEK/ HSHWAQMWP*YPCPAKHWW CRREHVLVVN/DCSTS*NSYWH FSD*LRAMKRRNEQCKR*AIRS LSRSLPARQDLKLLS
18109	48477	A	18216	3	281	
18110	48478	A	18217	878	1135	
18111	48479	C	18218	1	1602	
18112	48480	A	18219	33	608	VDSLRFQSPSCSVYSTDTR*ISE T**NKL*PPKPVIACPKMWIQV GQKFRQKAAATP*KAR*SPRPIP SH*QP*PKIQTRCGPQPQIRSPT QKPHDRQTALSHRTTTFHGPTP APPLAHPAPTVPSTPASTQHPAR RHQVARPDRSSTPLPARIALRVF CPTPSTAPPEHPRQNPAPQTD SALPGA VRG

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18113	48481	A	18220	3	893	NPRKRTEQGKAQNKVQWWLT RTPVMVQKRPTIVSLKSSPDSPL ETYSMFLFLGMWVGVGVM/C SVKLEEQVNTYHYQRILLGISS DNAILLEEESEEGRPMHISTIKE PSPDSPILYLTLNLKLLTSLILFH YGESWNLLRADQRLIFAKSWP RASRYQQGHQDLFILRSDLPSQ VFIRDKLMERRNRRTGRTEKAR IWEVTDRTVRTWIGEAVAAAA ADGVTFSVPVTPHTFRHSYAM HMLYAGIPLKVLQSLMGHKSIS STEVYTKVFALDVAARHRVQF AMPESDAVAMLKQLS
18114	48482	A	18221	1	327	LISLRQRQRTPGKPGKGRPIP SPWPP*PENTNPMRPPSPTRSGH QPRSLMTGRQRFHTAQQRFTV RPQHHRSLIQRRPCQRQRPNI QRGDIRSLVQIGHQRRCLRG
18115	48483	B	18222	1	1419	
18116	48484	A	18223	1	2784	
18117	48485	A	18224	936	1157	RTSTGLSGCIRCG\CASEGGQAV FV/WPRGPPETPCSRCPAAEGSP G*SPPREDPSSGSPGKRQTCTQT SARSPS
18118	48486	B	18225	67	1314	
18119	48487	A	18226	302	1423	CRWRFRFIMPFVMASSAECL MNYNSTAMSGKTGLQNDTTLI ARPWVKPYLGLEIMRIVGN*PH LTWCFPCTMYIPLFSQLLCCPVS FGQCGAFRNPGHPPSPNPEFFLG PRRCNPSLGHKALVQEAASDTP GKS\PGKSPPGPIPKIGPP*PGK HKPDAAPSPHRSGSPNPEAS*PE DSAFTPHNNVFTVRPQHHRSLI QRRPCQRQRPNIQRGDIRSLRF GCFARHHPRHHRNIHDRTRTRP RRLTRHSRGLFEDDVRVSTTDP ERRHPHTNTTTTPGGRVLRKE LNRPRRPIHLRRRRFHVQRAWQ LPVPHRHHHLDTSHTRRRRLR MTDVRLDRPQPQRPARITITAV GGDQRLRLDRITKPRARP
18120	48488	A	18227	1731	2392	
18121	48489	B	18228	1	1422	
18122	48490	B	18229	298	1464	
18123	48491	B	18230	1	1800	

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18124	48492	A	18231	745	1250	HTQNQRSGRSQND*RRRKNIS ERSAVYR*RQLYIRRQPYAERP SLR*RQRP*IPCIRSQHGNRKRI RRRIFI*QSVLRRRHLLP*RKPE ASAERHKTRC*VSERRPRYHRV KYDYH*KSIYSR*AHGAA*PSH RKDRESADLGSDGQNGQDLDC RGGCQPLLLTV
18125	48493	A	18232	1	1661	MAETA VINHKKRKN SPRIVQSN DLTEAAYSLSRDQKRMLYLE DQIRKSDGTLQEHDGICEIHVA KYAEIFGLTSAEASKDIRQALKS YAAKEVVLYRPEEDAGDEEGY ESFPWFIKRAHSPSRGLYSVHIN PYLIPFFIGLQNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS GIVSLKIDWIIERYQLPQSYQRM PDFRRRFLQCINAGHEMTKAI AQFNDDSPARKITRRWRIGEA ADLVGVSSQAIRDAEKAGRLPH PDMEIRGRVEQRVGYTIEQINH MRDVFGTRLRRAEDVFPPVIGV AAHKGGVYKTSVSVHLAQDLA LKGLRVLLVEGNDPQGTASMY HGWVPDLHIHAEDTLLPFYLGE KDDVTYAIKPTCWPGLDIIPSC ALHRIETELMGKFDEGKLPTDP HMLRLAIETVAHDYDVIVIDS APNLGIGTINVCAADVLIPTP AELFDYTSALQFFDMLRDLLKN VDLKGFEVDVFIRDKLMERRNR RTGRTEKARIWEVTDRTVRTWI GEAVAAAAADGVTFSPVTPH TFRHSYAMHMLYAGIPLKVLQ SLMG*YVHCKALWMDCAHV** TKEKIHSLHRRHPLQGDKPL PSPRNSSMPAVYPYWLQRSIRI FQHI
18126	48494	A	18233	162	446	
18127	48495	B	18234	144	2537	
18128	48496	C	18235	1	873	
18129	48497	A	18236	700	1198	PFFGTDFPWARWCIQLRHKFW SKGKQRTTKKAPVKPPGSPAI DHP*PGKHKPDAA SPHRS GHQ PKTSMTGRQRFHTAQQPFHGPT PAPPLAHPAPT VSTPASTQH PA RRHQVARPDRSSTPLPARIALR VFCPTPSTAPPEHPRQNP NPAPQ TDSALPGAVRG

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18130	48498	A	18237	363	940	LQTVLQGYSNENSMFVKQKGS PPGKPGKKKPCFWGAPKNGAD IPSQSWRPSGNPGTTPPLPKPPSF FPGAPRMGQSQA WGHKGFWF KKGKPTPEPPGKKARVKKPPGG QSPKAIGPTRGPGKPPKPDMA PKPPTDSGHQTQKPS*PADSAFT PHINVSRS DPRTTARSSSADRVN ASEYPTSSEETSGRSSR
18131	48499	A	18238	861	1517	SLRPHLSGFYQARTL*DQRS*A DHE/DISKNCSEA V*SNNSAGV GTISTS/RSTYDINRADTQVRR VNNYDIIVMSNSFNGQSEHQV WIGGQF/ILHQICPLTQFQYGA PDRKE*CQAPASKWALLHK*H RPFQDRKAGECLLHEYEDLVP IRDTLRLFPGGRYLPRAKHVAP SEPDPEQDEQKLRFCRHL YGQ QPRSPVEIRLQHVAIAYQTHHA
18132	48500	B	18239	1014	2337	
18133	48501	A	18240	1495	1947	IVTLCFPSYCLHCEAGP/LPCGH PWLWLC*VLGSPG*TQRTGSW AMPGVQASKPACG*KVAPAAR RVPHPLHMLPHSGHSAASGGA SCPLCRG*ATGSDQVLKHA FRK GRSSNCASNGTPPPNADFLGQD VHPARHKLRQKSASEPRKKAR
18134	48502	B	18241	1	2055	
18135	48503	A	18242	1	909	
18136	48504	B	18243	184	395	
18137	48505	A	18244	447	667	HRPRRRFQIKPQSQVPEHAPLPL PTASDPP/AHSPRCPSERLSPGG QRLGFSSVLNCSKCSWQLAAC MGFSF
18138	48506	A	18245	265	890	
18139	48507	B	18246	1	551	
18140	48508	A	18247	407	636	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR */ERDYISIMPKPDGLTAAKNLA EAFEHYNECIRI
18141	48509	A	18248	1	1448	
18142	48510	A	18249	817	930	
18143	48511	B	18250	303	461	
18144	48512	A	18251	612	3359	
18145	48513	A	18252	1	462	

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18146	48514	A	18253	268	749	RGGIEYLLL VV FILTRTRFIQAV EHRRNGRRVAEKIVPELITHFM AEIRDLLQRTGVAL/W*HQSAA YLPG*QICALA**IHPGVAAGEY QRRSIQENGKQVQESGQTAS*M RG*MSVESRSGIAARCPESDAQ SGVVHRSRWNQSLPARFGAGR DYREAS
18147	48515	A	18254	1793	2193	TQRIPAAQKQSRCIVDSSAEA LSAALAIGNIELVKPSRTMS/DK AAQEIVNŠGKAKRVVVS LGPQ GALGVDS ENCIQV VPPVKSQS TVGAGDS MVGAMTLKLAENA SLEEMVRF GVAAGSAATLNQG TRLCSH
18148	48516	B	18255	1	1557	
18149	48517	A	18256	606	1123	QRDNPSGTDGGRNRAFGAGNI HTRGAAQ AVERLVDSFPAQEK DPGESTGR TDSL PSSRPQKVAY PVHRNDRR/ERLWFAAPSSPSN ATWGNAEWTLNFSSSDSVTGA SSER*NLLFRLATVRCTLPSSVS ADGAIVAALATHIGEAE LTLES QCGAWRATFSSTCSSLPLNPN
18150	48518	A	18257	110	318	TALKLPLPMSTKVTRCLS NLLK PKFNLPLVQPPKKMLPRHLSR *APNTKTSRVLKKN*PIPIPTRR KT
18151	48519	A	18258	2	3062	
18152	48520	A	18259	4435	4954	
18153	48521	A	18260	1	1959	
18154	48522	A	18261	2	715	
18155	48523	A	18262	1	756	MIRRVSVASGNEYPMRPASYIR TAPTVPSSSPAGTWFA GNAPA SSCGFRDRYLIVCSHQTPHVP KREEVNYETGIYWLRHYGYTD YSRNAKQRLQRNNLAPILFTTT VPLGGRQYNN SQHLPQRQSLE RIRHHTQAFTALIPHGAAGQGC GSGDLHYLSLEDVAVSSKATPD GSGVTRKASANLRVTIQIGGFQ LRTC GFPGPCR GCHPALQISRAL AVAAHQQAADNNMEFANYGP FELLQARQLIES
18156	48524	A	18263	1	799	
18157	48525	A	18264	1	270	
18158	48526	A	18265	2	188	LGFFFQRPLGFGQELSKL*EQVL LAPEEVGHLGEHLLFRHASEWP APRVQLLLLVRVQDLQE

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18159	48527	A	18266	2791	3274	SKIFPRHDDLLWRSHRNGDDL RTAGMNAFKQRLTLLGFKITIL TANDYLFADGQ/RSVRKKYPQ AQVSRVAGADLWEELMARAG KE/GTPVFLVGGEPEVLAQTEA KLVRSSSATSAIAWPLLIPCAISS WIRSTAFCCCSWVSEGKPADRS PAPSRTWLRC
18160	48528	A	18267	202	627	
18161	48529	A	18268	1	2390	
18162	48530	A	18269	1081	1911	
18163	48531	A	18270	86	272	
18164	48532	A	18271	674	2808	FILKLRTRRR*RHRLIRPWELFQ TARNAEVMKA/LVRHLWLEVK GVDLGRFPERRYGS DKPDLRNP MELTDVADLLKSVEFAVFAGP ANDPKGRVAALRVPGGASLTR KQIDEYGNFVKIYGAKGLAYIK VNERAKGLEGINSPVAKFLNAE IIEDILDRTAAQDGDMIFFGADN KKIVADAMGALRLKVGKDLGL TDESKWAPLWVIDFPMFEDDG EGGLTAMHHPFTSPKDMTAAE LKAAPENAVATLGDPLESPDDG LHNRISTHGCIFYVLCGISTNIGV ESTARNAWELGFNLVIAEDACS AASAEQHNSINHIYPRIARRG RDPQRVMIYIGLPQWSHPKWV RLGITSLEEYARHFNCEGNTT LYALPKPEVVLRWREQTDDF RFCFKFPATISHQAALRHCDL VTEFLTRMSPLAPRIGQYWLQL PATFGPRELPALWHFLDSLPG FNYGVEVRHPQFFAKGEEEQTL NRGLHQRGVNRVILDSHPVHA ARPHRKLGGTA VWEWEPEGA HWVGDEPGWFSSGDL SKAEY WAQKAADSGDADACALLAQIK ITNPVSLDYPQAKVLAEKAAQA GSKEGEVTLAHILVNTQAGKPD YPKAISLLENASEDLEND SA VD AQMLLGLIYANGVGIKADDDK ATWYFKRSSAISRTGYSEYWA GMMFLNGEEGFIEKNKQKALH
18165	48533	A	18272	532	2103	
18166	48534	B	18273	1	4401	
18167	48535	A	18274	343	765	
18168	48536	A	18275	447	709	

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18169	48537	A	18276	1	1571	MIEVKHLKTLQALRNCGLAA AAATLHQTSALSHQFSDLEQR LGFRLFVRKSQPLRFTPQGEILL QLANQVLPQISQALQACNEPQQ TRLRIAIECHSCIQWLTPALENF HKNWPQYSVIFKSGVTDFPHFF FQQGELDPERAFDDFGIKPMAS ASIAQVHSARFNSNGHEVVIKV IRAETLPVIKADLKIYRLARW DAAFAAGWSPPAANLSCAGST KIHRLMNRTCCRNLPFPFSGA KPGLYLVEAMVGGYRATTVVV VSDTVALSKVSGIELLVWGAG KKQGEANAGSEILWTDGLGVM TRGVTDSDGTLQLQHISPERSYI LGTLAMVQLREDMAKRAAGI IAPRSGRRMHRTQHKPPMTTE MGPRAVLREDTIPFLEALKASG KQRILLTNAHPHNLA VKLEHTG LDAHLDLLLSTHTFGYPKEDQR LWHAVAEATGLKAERTLFIDDS EGDAMKEKPAVEVRLDKWLW AAR/SL*NPRAGP*ND*RR*GAL QRAAHEAEQNRRAECHAHSAP
18170	48538	A	18277	2080	2274	RFQVVYFDHEKPSLRHE*FALE EYTGTRN*GCVNLLDR*KPFPF KFMERWLAFSPPGLTLESSRG
18171	48539	B	18278	1	3126	
18172	48540	A	18279	1	341	MLDRLESEILADRVSEESRRWL ASCGLTVEQM QNQM DPVYTPA RKIHL YHCDHRGLPLALISKEG TTEWCAEYD/GMGQPAE*REPA SAAAA YPPAGAAV**GVRPVL QPPPLL
18173	48541	A	18280	945	1484	
18174	48542	A	18281	965	1403	
18175	48543	A	18282	703	1149	
18176	48544	A	18283	161	476	LLPWRSCLRS DPLAAHPVI/LV P*ACIFIARNCYPRPSCDSACKL RRESCG*FG*TRMVSAQATFSIQ ITSA/LPFCEHLPGRSGDFDTG EDNALSGQRPEFRHG
18177	48545	A	18284	1	443	MLSEPALRELATAIAGVRKGEN DIAVENIIGANIFNIVIVLGLPALI TPGEIDPLAYSRDYSVM LLQAG KEVLAIERECLAELDQYINQNF TLACEKMFWCKGKV VVMGMG KS/RAILGEKWPRNVCQHRIAN HENRDSIRKICCYHR
18178	48546	A	18285	3	550	

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18179	48547	A	18286	2157	2504	LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD** RVPRQNALLPVCTSGPYHALA TGCGFRRGQMLKTTVLPRHYK LYLGASSGMRYSTPATALMPLP LPHLAER
18180	48548	A	18287	1	621	
18181	48549	A	18288	1	423	
18182	48550	B	18289	1	1551	
18183	48551	A	18290	1171	2757	
18184	48552	A	18291	347	690	
18185	48553	B	18292	1	528	
18186	48554	A	18293	1	1417	
18187	48555	A	18294	292	699	
18188	48556	A	18295	859	1377	
18189	48557	A	18296	1	3036	
18190	48558	A	18297	1	942	
18191	48559	A	18298	1	2124	
18192	48560	A	18299	1955	2797	GGISIDRSGDH*GRGAVYHVAG R*NAGRТАЕLYFASRPTCG/RW LVAAVQGAATARISTIEMSVW AQL*QMCRGKIRAT/ISLPEATA QVISSGSGATKVEDGLGDLNKP VSNQNLVTGIDTPVYNAPSAGS APFGVLADNMRYPIHLKLDKDR LNQTWYQIRIGDRLAYISALDA QPDNGLSVLTYHHILRDEENTR FRHTSTTTSVRAFNNQMAWLR DRGYATLSMVQLEGYVKNKIN LPAVAVVITFDDGLKSVSRYAY PVLKQYGMKATAFIVTTIRKRV
18193	48561	A	18300	1	1191	
18194	48562	A	18301	1	298	MPVVFTVFFLWFPSGLVLYYIV SNLPRYAEYLTVKDADGSVLD QGIALWFPAGPNSFTGEDVLELQ GHGGPVILDLLLIRILTVCGLR ARPACSPRSL
18195	48563	A	18302	1	1011	
18196	48564	A	18303	1	1845	
18197	48565	A	18304	1	755	MSPVIDKMYVDAYQPFSEEKIS MQEALEKGAQPLREFMLRQTR EADLGLFARLANTGPLQGPEAV PMRILLPAYVTSELKTAFAQIGFT IFIPFLIIDLVIASVLMALGMMM VPPATIALPFKLMLFVLVDGWQ LLVALVTGLIISILQAATQINEM TSLFIPKIIAVFIAIIAGPWMLNL LLDYVRTLFTNLPYIIGRTMLQ VTSEQ/CAILVKPVLLAVTARA GADLHRADSSERTQRTKTGGGF CRYWAG

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18198	48566	A	18305	1	1977	
18199	48567	A	18306	1	630	
18200	48568	A	18307	1715	1996	LFRLKTLTGRRKRSNKS WITTCRGFWGTWCAGWSRP*VVQK CRIYTMWR*WQHAQR*VSPAT LNGLMLITISRKNPHTRKGAGK HCPFSGPS
18201	48569	A	18308	517	675	
18202	48570	A	18309	480	626	
18203	48571	A	18310	757	1146	
18204	48572	A	18311	318	724	
18205	48573	A	18312	1	1743	
18206	48574	A	18313	1	1197	
18207	48575	A	18314	161	613	LLRQGFIVISAGGKRVEGQIKLV FPAKFEAGFRHGVIANLRLYPF PEEKIGEMATAPLSTSGDCRT* YALIGIQ/PTDGDARGSPRYKPA LALLPACVGS AKSTPHGRTPIPA IYVPSSPT*FRALASDSVAQT*Y CRPASQTRRASPARS
18208	48576	A	18315	177	425	SRYFSATSTWPLVMSIPVTCPPS PASWLST*QSLPLPLPRSKIQQF CRCSGITRPQP*YDPKSSSFVD AQQSPDHSHNILGLLLRVHFAR LPECAWGPALW
18209	48577	A	18316	1	576	ADSSKKIADIISVIDGIAFQTNIL ALNAAVEAARAGEQGRGFAVV AGEVRNLA SRSQA AKEIKALI EDSVSRVDTG SVLVESAGETM NNIVNAVTRVTDIMGEIASASD EQSRGIDQVALAVSEMDRVTQ QNASLVQESAAAAAAL EEQAS RLTQAVPRSVWQPAHSPINRK HHPVLPIATGALMPGCGS
18210	48578	A	18317	121	1819	
18211	48579	A	18318	1	2151	

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18212	48580	A	18319	3	1127	GTPYASQP VIRPVEGSKPLIKQV LDIGAHGTDK TIAQKLARVAR MHFARQRLAAVATFACSAQNA IALMEEIAANFSYEMIRLTECIL GFTWNRLYQGINVHNAERVRO LAHDGHEL VYVPCHRSMDYL LLSYVLYHQGLVPPHIAAGINL NFWPAGPIFRRLGAFFIRRTFKG NKLYSTVFREYLGELFSRGYSV EYFVEGGRSR/TGRLLDPKTGM LRGGTRPITLIPIYIGYEHVMEV GTYAKELRGATKEKESLPQML RGLSKLRNLGQGYVNFGEPM LMTYLNQHVDPDWRESIDPIEA V RPAWLTPTVNNIAADLMVRIN NAGAANAMNLCCTALLASRQR SLTREQLTEQLNLCYLDLMRNV
18213	48581	A	18320	1	2470	MFQPSDSGKSFIFNMSVGYNLE GIKQPPMQQFIDNMMDASDHP KFAQYRDTLNKLLQDDAFLAR HGLQEKRESLQALPARIPTSMV HGVTLSTMHGCPPHEIEAICRY MLEEKGLNTFVKLNPTLLGYA RVREILDVCGFGYIGLKEESFD HDLKLTQALEMLERLMALAKE KSLGFGVKLTNTLGTINNKGAL PGDSTSGVLRTYERLLTAWML TCPCADEHQGESVKLATALT WWLRGSQNRDEITKDGFSQSNH AGGILGGISSGQQIIAHMALKPT SSIDVPGR TINRFGEVEMITKG RHDPCVGIRAVPIAEAMLAIVL MDHLLRQRAQNADVKT DIPRC AQSIGSFSGNCIVGADTLPIQSE HYQVMRTDQRRYFGHPDLVM FIQRLSSQVSNLGMGTVLIGDM GMPAGGRFNGGHASHQTGLDV DIFLQLPKTRWTS AQLLRPQAL DLVSRDGKHVVSTLWKPEIFSL IKLAAQDKDVTRIFVNPAIKQQ LCLDAGTIATGCAKCDPGVSIG AYAYLLTLRAQCLAHDLPDPLE PLEIDGTLLPRYVFIHGGPRVFT YYTPKEESIKLFHDYLDLHRSN PNLDVQMVPVSVMFGRAPGRE KGEVNPLRMLNGVQKFFAVL WLGRDSFVRFSPSVSLRRMADE HGTDK TIAQKLARVARMHFA RQRLAAVGPRLPARQDLFNKL
18214	48582	B	18321	1	1460	
18215	48583	A	18322	2	234	

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18216	48584	A	18323	282	422	
18217	48585	A	18324	1	1974	
18218	48586	A	18325	154	1944	
18219	48587	A	18326	18	386	KACEAVF*DQGLPLGPKVQGG WDWFPGPALRHQQSVAHQ GGFRSLWGYSGVSGQCRHSD *SRPGREARRRRSVAG**SHAL HRQTALFGARSDADLPAAAPR YLLYRGLSAAHFRPQAG
18220	48588	A	18327	181	655	KARSPEDQGFRPRVHIDGGVW HLDVGSSHPGAEVGPKGMAVR HLKWYASWV*NVVRQFGPYLP WALEN/WRGAAPSTRGHGVC/G ITVFGKSDGTT/SHDQY*TAPYG SPHPPGRWSLRHRYPAHLTSSA LAFSDARRNAARQPRRWNP LGSQVICLP
18221	48589	A	18328	1	658	MDDGTSIAPDGLWAFIGDELK MGIPENDRIREQKQKYLNRKSY LHDVTLRAEPYMYWIAGQVKK RNMPMELVLLPIVESAFDPHAT SGANAAGIWQIIPSTGRNYGLK QTRNYDARRDVVASTTAALNM MQRLNKMFDGDWLLTVAAYN SGEGRVMKAIKTNKARGKSTD FWSLPLPQETKQYVPKMLALS DILKNSKRYGVRLPTTDESAL ARVHLISPVKCARFSRFVFCPA VCRDSSGADERRTSDGCQYA GGVKPESVMGAIEVEGFHSISV TSAWSRGDNSPAPMAFSRLWL TVFSMVFKRRETVRSLSAVGA GELRGAAPSTRGPEWTHHWCS GCHANGTARSAVPPDPMPNS EVKRRSADGSVGS*RLITAAK VGS*RQLKRTKRVGNPRTSGRY RCRRKRSSTCLKCWH*VIFSKT ASVMAYVCQRPMAVLWRVC
18222	48590	A	18329	642	1343	LCLHLPLPTRFRLQL*EEGGPV QPAAMPQWRTLPGGPRPALPL PRRLRGSSLRARPGRLRGPRLR* RRHVCGGRRRAPLLLRAGLRRL RLPRARGPVRRAPLCSRRPLLR PLLRPRLRLRSRLHGSV*VPSA PRRRKRLARGPAGPQARGPSAL PFASGSGTARGRGRRCALA GPRAPPWPLPGCWVSLAGWDP GAVSPRTPGCTQQPKDAGGFR GWSEAGVHDAQTV
18223	48591	A	18330	1	810	

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18224	48592	A	18331	236	717	ALPVGAAFSSTTGFGSGFGAGG ASTFGLGGSTGFGFGGATGAGS GSNSVLLAAIVAGSSDGAAASP ARTSSAAPSGGCD/QERRIVDFK RNKDGIPAVVERLEYDPNRSAN IALVLYKDGERRYILAPKGLKA GDQIQSGVDAAIKPGNTRLSYG QHREAWR
18225	48593	A	18332	49	291	
18226	48594	A	18333	75	839	
18227	48595	A	18334	1	579	
18228	48596	A	18335	223	563	
18229	48597	A	18336	1	1219	
18230	48598	A	18337	157	864	RGNRQLQQFPRHWRSNRLDGL LLQIQLQILGGHTVERHLVVQI ALVVNGHPGHADGMWILCIRV LLSLQQNGFRRVPSIGHWTGH* AATDQARLMLGGHINAQFAGI QRLEDLGTQLLHTTNGLVEVE ARRQILQLGLPLFLLNQTVDVW AIPGVHVLRFDDVGRDPS/EVLI DPRQNAGLLWKVFATFRPEPTR PAVCCPRGGQSGDDRRAGCAC NHVELVARHRRSCPWHSDRH
18231	48599	A	18338	1	219	
18232	48600	A	18339	1	2226	
18233	48601	A	18340	46	228	
18234	48602	A	18341	382	1431	
18235	48603	B	18342	1	2400	
18236	48604	B	18343	1	912	
18237	48605	A	18344	2267	2539	
18238	48606	B	18345	1797	3411	
18239	48607	A	18346	1842	2560	
18240	48608	A	18347	1	1284	
18241	48609	A	18348	1	792	
18242	48610	A	18349	1	978	
18243	48611	A	18350	757	1011	LFGRFSNGFLIVVCQRLRQAVV NEQFLPETATLTHRGELLFHSP A*LPGVFRYLAQM*RHAVIQVF RATGVPEPERCRQRRPHER
18244	48612	A	18351	148	679	RMSDDKFDAIVVGAGVAGSVA ALVMARAGLDVLVIERGDSAG CKNMTGGRLYAHTLEAIPGFA VSAPVERKV TREKISFLTEESAV TLDFHREQPDVPQHASYTVLRN RLDPWLMEQAEQAGA QFIPGV RVDALVREGNKVTGVQAGDDI LEANVVILADGVNSMLGRSLG MVPAS
18245	48613	A	18352	1168	2241	
18246	48614	A	18353	1	1344	

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18247	48615	A	18354	440	886	
18248	48616	A	18355	1	2876	MAGVPGFEPGNAGIKNRCLTA WRYPIRTTLSGEWCGRDLNSQ EATLQQPLLQAIDLKKHYVPVKK GMFAPERLVKALDGVSFNLER GKTLAVVGESGCGVLACTLFA WNRNYFVLLFVGVLSSFGSTA NPQMFALAREHADKTGREAV MFSSFLRAQVSLAWVIGPPLAY ALAMGFSFTVMYLSAAVAFIV CGVMVWLFPSMRKELPLATG TIEAPRRNRDITLLFVICTLM WGSNSLYIINMPLFIINELH
18249	48617	A	18356	606	726	
18250	48618	A	18357	1271	1726	
18251	48619	B	18358	1	1633	
18252	48620	A	18359	1	407	
18253	48621	A	18360	427	2307	
18254	48622	A	18361	120	694	
18255	48623	A	18362	804	1087	KRQHLCTHSGAIRLRIAGVGSW KG/GRPNWRKMAVRWRVPASA VSGWLRRWHCWPVAMPSE SPRIRCGAGCCICRLPLFRCGCC TPARLTISH
18256	48624	A	18363	216	436	
18257	48625	A	18364	476	577	FRRWYWGCCSTTRLSSHCLTR* M*CMRWSLAVCC
18258	48626	A	18365	1159	3744	
18259	48627	B	18366	169	743	
18260	48628	A	18367	2811	3513	SLPRGWFPQPEYGNLEIMEKTYN PQDIEQPLYEHLGFPRVGLRRE LKKAQESYWAGNSTREELLAV GRELRARHWDQKQAGIDLLP VGDFAWYDHVLTSLLLGNVP ARHQNKDGSVDIDTLFRIGRGR APTGEPA AAAEMTKWFNTNYH YMPPEFVKGQQFKLTWTQLLD EVDEALALGHKVKPVLAPGT WLWLGKVKSEQFYRLSLLNDI LAGYQQGLAETGVGPDDIVTA

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18261	48629	A	18368	1	2810	MKQTVYIASPESQQIHVWNLN HEGALTLTQVVDVPGQVQPMV VSPDKRYLYVGV RPEFRVLAY RIAPDDGALTFAAESALPGSPT HISTDHQQGFV FVGSYNAGNV VTRLEDGLPVGVVHVVDGLDR LARQLIKNLATLKAGNARVVN SNAMSFLAQKGT PHNIVFVDPP FRRGLLEETINLLEDNGWLADE ALIYVESEVENGLPTVPANWSL HREKVAAFAGAEPYHYLNHTL GFPRVGLRRELKKAQDSYW
18262	48630	A	18369	2279	2563	MNFGASLNSPTPRSYLSLGGEK KAPVWEHTLGVPSRRPAAGKL KKAPERYWGGEHPPVKKWLG G*ARKCRPRPWETL*KSHLRRR PSLGPWAGGL
18263	48631	A	18370	481	1020	
18264	48632	A	18371	1	998	MNENFGTQICVNNRLSFTDCSG YVTRYDHRFGQVTAHREEG LSQYRAYDSRGQLIAVKDTQG HETRYEYNAAGDLTTVIAPDGS RNGTQYDAWGKAICTTQGGT RSMEYDAAGRVIRLTSENGSHT TFRYDVLDRLIQETGFDGRTQR YHHDLTGKLIRSEDEGLVTHW HYDEADRLTHRTVNGETAERW QYDERGWLTDISHISERHRVT HYGYDSKGR LASEHLTVHHPQ TNELLWQHETRLAYKRTGLAN RCIPDTCPPVNAYLGTACCQHE ICDTPWLSYRDPFTGKSWLSGR YELHKRIYGITAKERKDVDVW HPDVRFFELYDENNELRGSFY LDLYARENKRGGAWMDDCVGQ MRKADGSLQKP VAYLTCNFNR PVNGKPALFTHDEVITL FHEFG HGLHHMLTRIETAGVSGISGVP WDAVELPSQFMENWCWEPEA LAFISGHYETGEPLPKELLDKM LAAKNYQAALFILRQLEFGLFD FRLHAEFRPDQGA KILETLAEIK KLVAVVPSPSWGRFP HAFSHIF AGGYAAGYYSYLWADVLAAD AFSRFEEEGIFNRETGQSFLDNI LSRGGSEEPMDL FKRFRGREPQ L*HTVVELPRPFHREILAFRPL*I TQAYLRHHR*RA*RC*CLASGC

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18265	48633	A	18372	409	533	TGNDAPVPAQSAQYRYLQ*SV RNFCLSLFRLGINLSLPYPHVDD VIPLMAEGKILPYLDIPLQHASP RILKLMKRP
18266	48634	A	18373	222	659	SAGSVKTRQSGANKQRRTSRSL ASFC/ETLSSVSFPAWRKISFLIP VGLPISNNYVCSLNPVWCAMR LNMPPMSKSICWQKHWKSTVS RWITTRHSFVQTLISTACWRRSP VTQSSWRSTFACSTGLLSHAPP LPIRHCTNITNVWY
18267	48635	B	18374	1	1527	
18268	48636	A	18375	1	1005	
18269	48637	A	18376	2	314	WVSYCSGSTTL/LLRALQECQR QQGPWASAGDPGEGAGERERL PQALASPPLQVKPARQ/RDPGL RTPDPGDTASPALNGHIFALPA GTAGDCFP RPGRKNSGT
18270	48638	A	18377	3	576	
18271	48639	A	18378	189	563	QGRGSSRPGCGHLDPGGEWL PQRPLQLHLCPSAYILIFAGVL VMVTGFLGFGAILWERKGCLS TTTGDRFWKDRQPWTCR/WQT SHRNQSGAGGQWDRFRSHQGH RDHEGRTSNWGS GFPREVA
18272	48640	A	18379	1	531	
18273	48641	A	18380	1385	1673	AASDRAAETG**KTR/HRWFL SVKLRTSTPTAVSPKK*KRLAW TRCMTPPSKR*KKRVTTPSSSPT SLTSTLPGATVATSPVMPRVWN CSTAVCRS
18274	48642	A	18381	1	921	
18275	48643	A	18382	1	2115	
18276	48644	A	18383	2	149	ARRNESRRGGR*HPCRPT*GT VNQRPAGFRRFAGPFRYSGKPG RERL
18277	48645	A	18384	482	1655	
18278	48646	A	18385	1	776	MENACVLLMGVLSTFLVSWLG KDAMAGVGLADNFNMVIMAF FAAIDLGTTPGAFSLCKRDRR QARVATRQSLVIMTFLPVLLAP LIHHFGEQIIDFVAGDATTEVKA LALTYLELTVLSYPAAAITLIGS GALRGAGNTKIPLLINGQVAML MQAPYYFQEAQIEAAIAAMDV APEYADIRQVESSTAVLYLFSE RFMTYGKAYGLCEWFEGSRLSI AHIPVTDNDNETQYHFFRQSCQ HC/DRCSVHRRLPDGGVVA

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18279	48647	A	18386	1017	9228	FGRGAGVCQ*RGRDQQRDEA GDGRLRLARL*VALYQTITHDLR YRHKNLYRRKLASQRVTEHVN RAGLRYSYQYEKDCITITDSLA HNKVLHTQGEAGLKRNVKKK HADGSVTQSQFDAVGRRLRAQT DAAGRTTEYSPDVVTGLITRITT PDGRASAFYYNHHNQLTSATG PDGLELRREYDELGRLIQETAP DGDITRYRYDNPHSDLPCATED ATGSRKTMWTSRYGQLLSFTD CSGYVTRYDHDRFGQMTAV
18280	48648	B	18387	1	1431	
18281	48649	A	18388	575	835	RQKPERYLTAFIGSTTLPLRWMT LVRVMRPIVTCRRSRILLSIS HLCKWRVSTKSPVILWTILSN* RLFWKSWR*NGLQSKYQDG
18282	48650	A	18389	1207	2465	ASTAQHQQLSPAKEETTGWRI FHPSDPWALGRSQGGAGLIQPP EVQKGSVRYRARFALLGPAMV AHRHTGRPEIRYRYDSGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKRNVK KEHADGSVTQSQFDAVGRRLRA QTDAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLELRREYDELGRLIQET APDGDITRYRYDNPHSDLPCA TEDATGSRKTMWTSRYGQLLS FTDCSGYVTRYDHDRFGQMTA VHREEGLSQYRAYDSRGQLIGV KDTQGHETRFEYNIAGDLGGI APEGG/RNG/TQYDAWGRRRTT /QGGDADDRSAGGTRARKGHT SFRSVGDRTVSRHGYPGRNLR RMVRSSVPLYRLTASIAPVPQE YRFPHQSEEVY
18283	48651	B	18390	1	2604	
18284	48652	A	18391	1	2640	
18285	48653	A	18392	1	549	
18286	48654	A	18393	290	389	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSV
18287	48655	A	18394	1095	1268	HLCGPRTAR*ARFWHL*RAYG L*SGECRRAGSVAENARSACRC RRSAHAGRFLQTAS
18288	48656	A	18395	1056	2178	
18289	48657	A	18396	1	669	
18290	48658	A	18397	1628	1856	
18291	48659	A	18398	227	668	
18292	48660	A	18399	1	3186	
18293	48661	A	18400	291	631	

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18294	48662	A	18401	1	1437	
18295	48663	A	18402	345	727	
18296	48664	A	18403	870	1043	
18297	48665	A	18404	1	2175	
18298	48666	A	18405	1	1332	
18299	48667	A	18406	1	1566	
18300	48668	B	18407	1	921	
18301	48669	B	18408	1	2487	
18302	48670	B	18409	1	2919	
18303	48671	B	18410	1	2214	
18304	48672	A	18411	1714	1979	RLAWRLAGRWAGSWRTSTIP PAAACSRRLRCSPPSKFCSAWCR WCSTRACSSCCRSTSSPMPAWR PSAGS*LSTARRRAPPALVLRJ
18305	48673	A	18412	1201	2118	PSRQADKENRPHPGRGYPARM MSGLTGTTTSTGWCTTRGHN MKSRRWSKVAIFTRWGRRVAK RVWRRERDLTGWMSLSRKPOV TWYGDGDRLLTIQNDRTRIQ TIYQPGSFTPLIRRIPLVGGDDTT MDCLRTSIRLNAASVTCAYYRD QISMPGSRKEVVNAREEGVEFQ FNFQPQYIACDEDGRLTAVGLI RTAMGEPGPDGRRRPPVAGSE FELPADVLIMAFGFQAAMPW LQSGIKLDKWGLIQTGDVGY LPTQTHLKKVFAGGDAVHGAD LVVTAMAAGRQAARDMLTLF DTK*PGTAGTATG*PQYRTTEP ASRRFISRGASRHSSEGS/SVLG GGDTT/MGLFADFHPQCRQRD L\PYRRDQISMPGSRKEVVNAR EEGVEFQFNFQPQYIACDEDGR LTAVGLIRTAMGEPGPDGRRRP PPVAGSEFELPADVLIMAFGFQ AHAMPWLQSGIKLDKWGLIQ TGDVGYLPTQTHLKKVFAGGD AVHGADLVVTAMAAGRQAAR DMLTLFDTKAS
18306	48674	B	18413	1615	1656	
18307	48675	A	18414	1287	5056	
18308	48676	A	18415	1	271	
18309	48677	A	18416	1	588	
18310	48678	A	18417	2150	2332	
18311	48679	A	18418	1	238	LEELGVIGAVLVGFSL*VLWAP LQLPKAGGRVKVAGIQLGEVEF WKVSKSCSSPDPPPGVMAAKIS ISQALQPPQSTR
18312	48680	B	18419	1	2721	

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18313	48681	A	18420	712	1031	PVMRQRGVFRSVILIKIRSARCC QMIQPRVISHAMYSLSPPFALR RSTKSPKRFSMNNS*ASRSSGST SRDTSAIS*ARRSISSRTSRLIIRS LISLISSLLVNVV
18314	48682	A	18421	1	1779	
18315	48683	A	18422	693	921	
18316	48684	A	18423	758	1183	ALTAASRSECAVIMMTGRTSCC DIVEKWIPARCCQMIQPRVISH AMYSLSPPFALRRSTKSPKRFS MNNS*ASRSSGSTSRDTSAIS*A RRSISSRTSRLIGWRSWLWYTLI NSIPPTNRAKSMKEPSPNACSK VKRCC
18317	48685	B	18424	1	708	
18318	48686	A	18425	1	2436	
18319	48687	A	18426	1382	1813	
18320	48688	A	18427	900	1028	AGYAAPGRTRDRSSPSG*GYRY SGCYQICRQPGRLGSRKSPV
18321	48689	A	18428	1	881	MTPSRFAKKNGSLVKRCMPGI DAEVTMIKPAAARPKVSHSKVR SYMIRLSVSFSREPITQPFSAVEI QTRJRYGVSGFFLRRVDTEHHP DRHAARALQYHITGSNRCDAIN AVQFDTAGGECTNRRMAEDHG RNVAVIQMLIRLVIKQAFREVP SELWTNRKQACPFLDFDCGENS AIAANNYDWFGNMNVLTFRLD IGKHFSVNQMINKEAVKQRLN REDQGISFTEFSYNLLQGYDFA CLNKQYGVVLQIGGSDQWGN TSGIDL/NPSSASESGVWPDRSA DH*SRWHQIW
18322	48690	A	18429	1	3270	
18323	48691	A	18430	1	374	MKTCWQILEIESTTQIDIIRQAY LARLPLCHPETDPQGFKALRQA YEEALRLAVNPVEEADDEEKD AAAEHEILRAFRT/FTGFRK*SFS AFRLAEIYSAIKYLEHGGCRSIT LAAVCNRHRSAT

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18324	48692	A	18431	63	1272	LRRSCNAVVCW*CVATCPS\GE EDGIVLIDQDKCRGWRMCITGC PYKKIYFNWKSSEKICFCYP RIEAGQPTVCSETCVGRIRYLG VLLYDADAIERAASTENEKDLY QRQLDVFLDPNDPKVIEQAIKD GIPLSVIEAAQQSPVYKMAME WKLALPLHPEYRTLPMVWYVP PLSPIQSAADAGELGSNGILPDV ESLRIPVQYLANLLTAGDTKPV ERALKRMLAMRHYQRAETVD GKVDTRALEEVGLTEAQAQEM YRYLAIANYEDRFVVPSSHREL AREAFPEKNGCGFTFGDGCHGS DTKFNLFSRRIDAIDHQQEMF EAIAASKNLPKEDAHALGIFLR DLTTMDPLDAQAQYSELFDRG RATSLLLFEHVHGESRDRGQA MVDLLAQYEQHGLQ
18325	48693	A	18432	2	859	WPLRRSPYSIINGSGKSAASGSV MQVAQFNHYQYDPKFERGM YLYEHRRCFNNIIDYCNSLCYH AWLVAHKDDIERNYRGPLVQV VGWCDAlFGAEELGISRAQFDQ FLRMMQGGAAQFGGGYQQQTG GGGRPGGHFFFEKRLLRMVDR LNARFTGGVLVSFKGPLLEGFG PWQGLSPWVIGPDLGLPG/CLG AWGAVSVCHCPWVCKTGSPFR WVPHRRFHPPPG*KFPENWMG FCSSRTCSGLFSHPHSPTMAFKN FELGHGTTPRGTRNRPTMSSNT YRPHRFQ
18326	48694	A	18433	479	601	CWRPLPAEKRWYLAANWW RLAARFVFPMLCVRQ*PSSMIW TTPDADIAIGTWRSCCAVLRGR KMPVSSITMRRRCY*CWRPLPA EKRWYLAANWWRLAARFV PMLCVRQAAPYTK
18327	48695	A	18434	69	194	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNRSARV
18328	48696	A	18435	173	298	ATYENMLANPRN*KHDANRHY PPGLSCSLTVVSSRNRSARV
18329	48697	A	18436	1	1734	

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18330	48698	A	18437	851	2202	RQKRLIFCCVKGKNWPP*WRW LNEKLPCSLMLLPTLPPSVLGIR LQNQLQRQFVRQGGVWMPGD EVKKVTCCKNGVVNEIWTRNHA DIPLRPRFAVLASGSFFSGGLVA ERNGIREPILGLDVLQTATRGE WYKGDFFAPQPWQQFGVTTDE TYARHRQGKPLKTCLPSVRCW ADLIPSPRDAAAVFVPSVLYMP LNRLPNAQEANNE
18331	48699	B	18438	1	5301	
18332	48700	A	18439	710	889	
18333	48701	A	18440	1622	2615	
18334	48702	A	18441	1	1309	
18335	48703	A	18442	1	266	PRQCGFMKKRLENGDDYFAVN PRGRCLHCCWMTVLC*RKRS YAVSCRQRP RPVLAPVNSISRS VSPYTPEEYKPTVRAQLEKNCN M
18336	48704	A	18443	267	395	
18337	48705	A	18444	1	3807	
18338	48706	A	18445	1	2193	
18339	48707	A	18446	1278	1846	SCRSAPNRHQIPGTYRSRLPRH TTPPGYDHNKPNLYISTRQK RDAFFAVQYHSLLYRQTLLPN DHNQSVDR*FVRL*NQNGYNS GRHLYWRYHSYNAL*LC HPVYYRLYYIFLQPVQMMPQ CPSPLMPECSFSFSLILINA/SNI QRESPVENRKVFNLRLLLKIYYR LIIFLKCGNLLNL
18340	48708	A	18447	1	2106	
18341	48709	A	18448	881	1401	
18342	48710	A	18449	1	233	MMGFDGTVQYMASLGAPMPM LAA/MYCGSYGSARRDINRAW LFHPSAGGAVYFLHAGYGGDW SPLLGYDRRCGWAKYD
18343	48711	A	18450	1	1960	
18344	48712	A	18451	563	928	FSAIKSSPKAQUALWHVLHY*AV N*TNIFKTEKPIFNRGKRFRPTP TRQLRECWIVWGSASCQLTKQ AVVARWTIILMRRRKGWHG RAIILMPGGPRLKQVPRQFCKPPA AAARLSKSMGRC
18345	48713	A	18452	1	828	

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18346	48714	A	18453	1	1327	MMQKPATVDEEESPRETHRYS VRRRGELIVEAGGRAENTVVT GAGWLKVATGGIAKCTQYGN NGTLSVSDGAIAIDIVQSEGGAI SLSTLATVNGRHPEGEFSVDKG YACGLLLENGGNLRVLEGHRA EKIILDQEGGLLVNGTTSVVV DEGGELLVYPGGEASNCEINQG GVFMLAGKASDTLLAGGTMN NLGGEDSDTIVENGSIYRLGTD GLQLYSSGKTQNL SVNVGGRA EVHAGEVTGDIHVEITDASRQT LCNALKLQPEGGSSRVIPTCK ASRLRIDANFKRFVDEEVLPGT GLDAAAFWRNFDEIVHDLAPE NRQLLAERDRIQAALDEWHRS NPGPVKDKAAYKSFLRELGYL VPQPERVTVETTIDSEITSQAG PQLVVPAMNARYALNAANAR WGSLYDALYGSDIIPQEGAMV SGYDPQREAMECP
18347	48715	B	18454	71	4995	
18348	48716	A	18455	1	3572	MARKRKSNNNSKIGHGAISRIG RPNPFEPNRYAQKYLTLAL MGGAAFFVLKGCSDSSDVND GDGTFYATVQDCIDDGNNADI CARGWNNAKTAFYADVPKMN TQQNCQSKYENCYDNEQS WIPVVSGLLSRVIRKDRDEPFV YNSGGSSFASRPVWVPSSIVIMS YGLASYVIAVAFLERDRIQAAL DEWHRSNPGPVKDKAAYKSFL RELGYLVPQPERVTVETTIDS EITSQAGPQLVVPAMNAR
18349	48717	A	18456	485	1999	
18350	48718	A	18457	44	270	
18351	48719	A	18458	1	2223	
18352	48720	A	18459	290	756	
18353	48721	A	18460	8	314	
18354	48722	A	18461	2	686	
18355	48723	A	18462	1	732	
18356	48724	A	18463	1	780	
18357	48725	A	18464	101	435	
18358	48726	A	18465	805	993	
18359	48727	A	18466	452	2180	
18360	48728	A	18467	691	1443	
18361	48729	A	18468	1	320	DPRDCRLKVGKEMFTLFGPQF VRELQQRGDFIDLDKFHDIPNT AAHAAAAADLGWVMNVH ASGGARMMTAAREALVPFRPD APLLIAPV*RSIKASDLVPL

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18362	48730	A	18469	632	796	
18363	48731	A	18470	129	425	TDIITRQNGTGANIDAIEIIATKA STGLFVYQPRFARCPVMSSGY HTATRGSSGTRTVRARVCHTA AGVYGSSKQTQF*NRFCQRKCR RYPDGCRRRA
18364	48732	A	18471	1	1062	
18365	48733	A	18472	1	996	
18366	48734	A	18473	1	1004	MLRVYHSNRLDVLEALMEFIV ERERLDDPFEPMILVQSTGMA QWLQMTLSQKFGIAANIDEPLP ASFIWDMFVRVLPEIPKESAFN KQSMWSKMLMTLLPQLLEREDF TLLRHYLTDDSDKRKLFLSSK AADLFDHVSGASVSSKVEQLR AQLNERILVLDGGMGTMIQSY RLNEADFRGERFADWPCDLKG NNDLLVLSKPEVIAAIIHNAYFE AGADIIETNTFNSTTIAMADYQ MESLSAEINFAAAKLARACADE WTARTPEKPRY\VAGVLGPTNR TASISPDVNDPAFRNITFDGLVA AYRESTKALVAGIVLMPAIPAL WEAEPGGCA
18367	48735	A	18474	606	846	
18368	48736	A	18475	3042	3933	GPHPPAPGGPA\CHYDVHQPYL RQRTEDRRTRHYLAQSFAQYSL RQWAFHFLLDNITPDIIQIVIAH TRRTGGFTITASEAAIEMLLCFK RDFVALQHLFNQIDAPARAVQF IAQKLIGWACCEAARKNQLPH NTTKRSLMSILYEERLDGALP DVDRTSVLMALREHVPGLEILP TDEEIIPYQCDGLSAYRTRPLL VLPKQMEQVTAILAVCHRLRV PVMVFPGLRLSREAFLLTAIEFG TQELRRPAQLRLQVYRLLSTAG RHHPAQNSPIRVLEVDIDLLGG TQELWGWKETH
18369	48737	A	18476	869	1639	ICSRCKSTRTSPTRCRKAIVIL VCFVIRELLVVAPELTIIGLPEG NWITVSKGMLAKSPVDSNSTQ LKEAEEERLKAAQYGLQLVES QNELQNQLDKCRNEMMTMT MQLRNKKRRRELGNLIKFRFRSG AESLPDAVVLTTTEGGIFWCNG LAQQILGLRWPEDNGQNILNLL RYP/EVYAISENA*FFSPAQSGA QHRAASGNSRHALYPQTVADG GA*CHANASTGRGAA*LFCQRE P*VTYAIDRVTLPGDDE

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18370	48738	A	18477	388	2356	
18371	48739	A	18478	137	318	GGQLSSWAMDFCHL/PAFWNS MTWHLQRLWGACGYFWHAQ WERLLTTFEGNEWILIFIGGIL
18372	48740	A	18479	923	1149	
18373	48741	A	18480	1	373	
18374	48742	A	18481	168	360	
18375	48743	A	18482	1	147	
18376	48744	A	18483	161	440	
18377	48745	A	18484	277	2172	
18378	48746	A	18485	164	406	LFRREGSYDRYLLMDDYCRRK DDSYFDRYRDSFDGRGPPGPES QSRAGKVAETVYSYY**NTL QKREETNNQYPHLKKG
18379	48747	A	18486	405	999	
18380	48748	A	18487	64	288	
18381	48749	A	18488	159	550	CAVCHISFQDTPVLVSSNVTMQ FGSKPLFENISVKFGGGNRYGL IGANGSGKSTFMKILGGDLEPT LGNGSLDPNERIGKLRQADQFAF EEFTVLDTVIMGHKELWEVKQ ERDRIYALPEMSEEDGYKVAD
18382	48750	A	18489	3	481	
18383	48751	A	18490	2	233	
18384	48752	A	18491	2	3026	SVPTIIFFFLPVLRFWRPGIQQA KKCHLFATGTQSRNTLRQRT AKGIPQQRMTAKREEISIGILHV TPQQRRECRGDNRTARFRRT WRLLGHCVSAAVTGVLPAVAG SPLAYSDTDEFYPVAGGTMSQ HLPLVAAQPGIWMAEKLSELP AWSVAHYVELTGEVDSPLLAR AVVAGLAQADTLRMRFTEDNG EVWQWVDDALTFELPEIDLRT NIDPHGTAQALMQADLPQDLR VDSGEPLVFHQTTLGFI
18385	48753	A	18492	2714	3079	RLIGLRMVREFVGLIRRASVAS GSWHCCRMRRKRLIRPKPSILQ SMLWSPSTRMFFTLVPIFSIEE LPFTFRSLMMVTLSPSASRLPLA SLTISSSLSCAGSASFHS*AHSG QMYMPLSS
18386	48754	A	18493	1	888	
18387	48755	A	18494	1778	2025	
18388	48756	A	18495	1	1425	
18389	48757	A	18496	3	96	FVGRIRRLRRIRRY*FTPLTD*LS CAHQVP
18390	48758	A	18497	420	955	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18391	48759	A	18498	533	1006	RPSIFACVSP*RINHRSRIMPQTN AKNAKPNPAQVMRGVISRRRR AMLFNSNSAITRTPTTSFTMAITS ASSSPPAVKVSICPHGINTPTNIC NTTSCFRLIPHFMTPKPLPLYSE SGPSCSSCSASARSNGSLPISIKV ANAQAQSASTSGMLWLSGQ
18392	48760	A	18499	3	418	EWHYLSADRRQCAFQGVSRKT ATVCHHPVDYYAGSLYRLYFT DRLRARLAGHAAES/GTPASHA VFQLVLE*L*SPLFSPVSTSGGR TANSTVLIMKSCMSGAVERQPT NWQAILMFLIFVVFTLGITYWA SNAYVLAG
18393	48761	C	18500	63	500	
18394	48762	A	18501	1	1107	
18395	48763	A	18502	1	153	
18396	48764	A	18503	88	510	
18397	48765	A	18504	204	654	
18398	48766	A	18505	241	771	
18399	48767	A	18506	1655	1909	
18400	48768	A	18507	2	48	
18401	48769	A	18508	1	585	
18402	48770	A	18509	1	723	LQPPGRRWAAPAV\SGLSRQV\ RCFSTSVVRPFA\KLVGPSVQV SVIEGRYATAL\YYAASRQNK EQVEKG\LLRVAQILEGTPKWA ASVLESPMLKAFPLKVKKPKM TITAKVGGSLPLTYQTLIN ENGSD*GNYPRESFSGFLTMD GVFHSRERVPA\CTV\TSGIFL*EG RPQFSEFKNCSSRGFLRSRAKFL KLGAK\TDPSILGGMIVRIGEK YVDMSVKTK\QKLGGRAMREI
18403	48771	A	18510	400	894	
18404	48772	A	18511	1	1023	
18405	48773	A	18512	73	424	RPGMWSTRSPNSTAWPLSLEPD PGMASACTTMHTTTIAEPDPG MSGWPDGRMETSSPTIMDIVVI *CAIAAEIIVLVSLFLVMLRYM YRHMGTYHTNEAKGTGVADS ADACPAGDPA
18406	48774	A	18513	141	563	RPGMWSTRSPNSTAWPLSLEPD PGMASASTTMHTTTIA\EPDPG VS\GLP\DGRMETPTPHP*LTMV VIAGV\IACLWPFVLSLPSSFVM VALTLLTGHKGARTTPNEAKG\ TEFAES\ADAALQG\DPAL\QDA GDSSRK\EYFI

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18407	48775	A	18514	182	935	QAFELHCPCKPSTLPSPAWPP RHTDLRKRGRRTAQ*YAGNES HPPSLPRYLRRSRH/SRMQAPSS TCSYSHTSLQCSPAPQNH/AQHP *PALEELACG/SPSVSSPYLVLS CQEQPHHCCPPSTPRPSW/CPSS GDAICYSPGQ/CPRSRGPLPIEDS SDSPPAEQVLPPSSGSHNTLYLR CKRFSFILNCEPPSK\C*KPGHR CRS*AGILTLLPPG/ERGP/GDGP ESTGRQSASKTPPPSPHTGHS LWSEEK
18408	48776	A	18515	48	676	KARLTWQQTREESLCRETPPYK TIRSRETYSLPREQHGKDLPP*F NYLPPSPSHNTICPG*QDQGRFT QPLYLRCKRFSFILNCEPPSK\ C*KPGHRCRS*AGILTLLPPGGE AQHFVKVHPSIPL/REGGEVGIK PKKTSPGTELLMQP/CHQPSRT CQPAPRKSNNRP/LGCLSPLMKHS TLGYLLWLQAIWLKGFGTSG W*M*GRFHL
18409	48777	A	18516	86	92	TANAALHQPSRPTCQPAPRKS RPQAA*ALNC
18410	48778	B	18517	1	2031	
18411	48779	A	18518	98	367	DLFLYLSWQHCHPYSHCHPNQ KPGRFLMKLSS\ETVTIELKNGT TRSHGTIHQVWDVQMNTHL KAVKMTLKNREPVL\ETLSIR GNNIR\YFILPD/SVYPLDTLLVD VDPKVSKKREAVAGRGRRRG RG/TRDVARGR*RGNNIR
18412	48780	A	18519	1	310	
18413	48781	A	18520	37	136	RRRPSSSWALPPSRGPSST*AER GAQHQQPVPA
18414	48782	A	18521	3	305	FFTLCLQWGLFSCSPICSGVGR YWA*VCLCFLQIEAIELPMDPK LNKRRGFVIFITKEEEPVKVL EKKFHTVSGSKVRCSQLCLASC AAGELALRGMG
18415	48783	B	18522	249	367	
18416	48784	A	18523	1	1008	
18417	48785	B	18524	17	835	

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18418	48786	A	18525	2	1188	SLIKLNSPPPRGGGTARYGAWL LVGGFPCGGGQGGGDTVGAAP WADWGEASAAA SFDVLA EAC ARLSSLRVGDEAGSRGVIWRAR SPPRLGLALSEAG\EE\QPMETT GASENGHEAVPEASR\GRGCW TPLRRGLEARPRRPRAGIRTAPR D\QRINASKNEEDAGKMFVGG S\WDTSKKDLKDYFTKFGEV\V DCTIKMDPNT\GRSRGFGFILFK DASSV*K\VL DQKEHRLDGRVI DP\KKAMA\MKKAPVKKIFVGG LNPESPTEEKIRESFGF\GEIEAI ELPMDPKLNKRRGFVFITFKEE EPVKKVLEKKFHTVSG\SKCEIK VAQPKEVYQQQYGS GGRGN RNRGNRGQ\GGGGGGG*GQGS TNYG\KTQ\RRGGHQ\NNYKPIL EAGRQERPT
18419	48787	A	18526	3	784	
18420	48788	A	18527	3	1990	PAMNGLSLSELCCFLCCPPCPG RIA AKLAFLPPEATYSLVPEPEP GPGGAGAAPLGLTRASSGAPG RWKLHLTERADFQYSQREIRST IEVFPTKSARGNRVSCMYVRCV PGARYTVLFSHGNAV DLGQMS SFYIGLGSRLHCNIFTYDSSGYG ASSGRPSEONLYADIDATWQAL RTR*GRPLVGRVRARWRPRLTL LRRRQVRHQPGQHPSCTGRSIG HGAHRGTWPRATSVPRWCCTR RSTSGMRVAFPD TQERPTASTP FPYIRERCPRLTSPRAHHPTGTK DEVIDFLEAGWRSTRRCHQGG GAAVGGGGPGHNDIELYSQYL ERLASLSFSQELPSQRA
18421	48789	A	18528	82	406	

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18422	48790	A	18529	2	1474	ARASGSGSSSGQGKMGQS\QRG GHGSGGGKDDDKDKKKKYEPP VPTRVGKKKKKTKGPDAAASK\L PLVTPHTQCRLKLLKLERIKDY LLMEVEEFIRNQEOMKPLEEKQ EEE\RSKVDDLKGGPRLSVGNL GKRF\DDNHAIVSTPVGSEHY VSILASFVDKDLLEPGCSVLLNH KVHAVIGVLMGDTDPLVTVM KVEKAPQETYADIGGLDNQIQ EIKESVELPLTHPEYYEEMGIKP PKGVAILLVPPG\TGKTFLPKAV ANQT\SATFLRGGGSELIQKNLG DGPKT\LSRELFR\VSEELAPSLR FIDRILPPLG\TKRY\DSNSGGE\R EFQRTM\LELLN\QL\DGFD\S\RG D\VKVIMPTNR\IETLDPALIRPR PAFDRKYEFPLCPDEK\TKKRIF QISHKS\RMTLADVGTWPWTTLI MA\KDDLSGA*PSKA\CT\EAGL MAL\RENRRMKVPN\EDFKKS\ KENVLYKKQEGTPEGVVSLMN PWLVIKRMVGRFLNP
18423	48791	A	18530	2	274	WQDLICRMAASVKEQSTKPIPL PQSTPG/ESHSLSTSGKSEVRDL FVAERQFAKEQHTDGTLEKVG EDYQIAIPDSHLPVSEERWALD ALRN
18424	48792	A	18531	3	844	

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18425	48793	A	18532	261	2814	VRFRNLIRIYCNKICAVSHCPP KVFKLNSLFFLHRFDSVAFGES QSEDEQFENDLETDPNWWQQL VSREVLGLKPCIEIKRQEVINEL FYTERAHVRTLKVLDQVFYQR VSREGILSPSELRKIFSNILEDILQ LHIGLNEQMKAVRKRNETSVID QIGEDLLTWFSGPGEKLLKHAA ATFCSNQPFALMIKSRQKKDS RFQTFVQDAESNPLCRRLQLKD IIPQMQRLTKYPLLLDNIAKYT EWPTEREKVKKAADHCRQILN FVNQAVKEAENKQRL/EEDYQ RRLDTSSLKLSEYPNVE\RLRN MDLTKRKMIHEGPLVWKVNR DKTIDLTYTLLEDILVLLQKQD DRLVLRCHSKILASTADSKHTF SPVIKLSTVLVRQVATDNKALF VISMSDNGAQIYELVAQTVSEK TVWQDLICRMAASVKEQSTKPI PLPQSTPGEGDNDEEDPSKLKE EQHGISVTGLQSPDRDLGLEST LISSKPQSHSLSTSGKSEVRDLF VAERQFAKEQHTDGTLEKEVGE DYQIAIPDSHLPVSKE\RRALDA LRNLGLLKQLLVHQLGLTEKSA LENWQHFPYRTAFQGPQTDS VIQNSENIKAYHSGEGHMPFRT GTGDIATCYSPTSTESFAPRDS VGLAPQDSQASNILVMDHMIM TPEMPTMEPEGGLDDSGEHFFD AREAHSDENPSEGDGAVNKEE
18426	48794	A	18533	90	383	ILQLHSSGPCLLWL*LSFRSLST TAV\CQCCRPAADFHPGSSRV AVLLIQ/HRRPLPLPIGLKACYFS ALSLQTSLTCLGLVLLDFPKE AASLDKV
18427	48795	A	18534	1	456	
18428	48796	A	18535	830	1092	

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18429	48797	A	18536	391	1824	GSGADASGFISDAGLIFKKASSK GPKRLEKFSDERAA YFRCYHKL FLLFSSLCYGT YHV VVLP TLKP REDEDWISLCLRHCLMQK DTH SMLGECGERREGKKQKTGALG SSLSLEDAKHLLPFIPALPFSWN ALPQDLCNVFKLLWDYRIRVD PSPIAGTLIRRDTPQGESHVKT GRHWSDTIKSQRCQGLRQPPDR PIPILLMVKGQHVWPSQLDKAQ IQEVTELNNVKNVARLPKSTKK HAIGIYFNDDTSKTFACESDLEA DEWCKVLQMECVGTRINDISL G\EPDLL\ATGVE\REQSE\RFNV YLMTSP*LRMLHG\ECALQVVT Y\EYICLWGRPRT PQEFKLISW\P LSALRRY\GRGTPWFNYQAGR M\CQTGEGLFIFQTRDGEAIYQK VHSAALAI\AEQHERLLQSVKN SMLQMKMSERAASLSTMVPLP RSAYWQHITRQHSTGQLYRLQ DVSSPLKLHRTETFPSLQDS
18430	48798	C	18537	22	620	
18431	48799	A	18538	48	413	EDSKSKTISHPWRDCGDYCHH QGLERCRRGGDSHHTPVQLS*LA CAED\NKS WRMTGHI VSLTKC* LQMQLLYQMWFHCLSKLTHLL GISTLQLCVTILFREILITFPLHKI SHWSITLMTLR
18432	48800	A	18539	23	124	QWVIISLTKW*LQLQLLYQMW FHCLSKLTRLPP
18433	48801	A	18540	1	1860	
18434	48802	A	18541	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLP TKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHL YANK LENLEEMDKFLDTYTL PRLNQE EVESVNR PITGSEIAITNSLPTK KSPGPDGFTA EFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRDTTKKGNFRPISLMNI DAKIL
18435	48803	A	18542	1	1521	
18436	48804	B	18543	1	2265	
18437	48805	B	18544	1	1716	
18438	48806	A	18545	1	1704	
18439	48807	A	18546	1	3618	
18440	48808	A	18547	1	3087	

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18441	48809	A	18548	277	350	SPVEKELKLWKNRHKLLSC*W LTC
18442	48810	A	18549	197	422	IVNKVVLPGGGPASPSLKGFVW YKLAQVWKLIEGP*FPIFIQISL LSI*PRSFLFV*IK*ECSRLPISFTS SGR
18443	48811	A	18550	1	3171	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRIEITNYLS DHS AIKLELRIKNLTQSRSTTWKLN NLLNDYWVHNEMKTEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKEERSKIDTL TSQLEKELEKQEQRHSPSRQ ITKMRAELKEIETQ
18444	48812	A	18551	209	2432	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKCC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTEIQITIREYYKHLYANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPGRDTTKKNFRPISLMNI DAKILNKILANQIQQHKKLIHH DQVGFIQMGQWLEVLARA/IR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTNKWNIPCSWIGRINIVK MAILPKVIYTFNAIPIKLPMTFFT ELEKTTLKFIWKQKRSHIAKSIL SQKNKAGDITLPDFKLHYKATV TKTAWYQNRDIDQWNTTE PSEIMLHIYNHLIFDKPDKNKQ WGNDSL FNKWCWENWLAICR KLKLDPFLTSTYTKINSRWIKDL NVRPKTIKTLEENLGNTIQDIG MGKDFMSKTPKAVATKAKIDK WDVILKLSFCTAKETTIRVNRQ PTEWEKIFATYSSDKGLISRIYN ELKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAAKRHMKKCSSS
18445	48813	A	18552	1	3255	

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18446	48814	A	18553	1	3139	
18447	48815	A	18554	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRKLNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
18448	48816	A	18555	1	3345	
18449	48817	B	18556	1	3127	
18450	48818	A	18557	1	3325	
18451	48819	A	18558	1	3145	
18452	48820	A	18559	1	548	
18453	48821	A	18560	1	3229	
18454	48822	A	18561	1	3352	
18455	48823	A	18562	1	1965	MGDFNTPLSTSDRSTRQKVNK DTQEMNSALHQADLIDIYRTRH PKSTEYTFLSAPHHTYSKTDHIL GSKALLSKCKRTEMITNYLSDH SAIKLELRKLTQNCSTTWKL NNLLNLDYWVHNEMKAERKM FFETIENKDDTTYQNLWDAFKAV CRGKFIALNAHKRKQERSKIDT LTSQLKELEKQEKTHSKTIRRQ EITKIRAELEIETQKTLQKINES RSWFFERINKIDRTLARLIKRR EKNQIDRIKNDKGDITDPTQIQ TTIREYYKHLIYANKPENLEEMD KFLDTYTLPRLNQEEVESLNRPI SGSEIVAIINSLPIKKSPGPDGFT AEFYQSYKKELVPLLKLFQSIE KEGILPNSFYEASILLPKRGRDT TKKENFRPISLMNIDAKILNKIL AKRIQQHIKKLIHHDQVGFIG MQGIKYLGIQLTRDMKDLLKE NYKQLLNEIKEDTNKWKNIPCS WVGRINIVKMAILP/KELEKTTL KFIWNQKRACIAKSILSQQKKA GGITLPDFKLYYKATVTKTARL YTKHGTSCCGSFGELLPMQKA KRELAHHMAKAGARVKGQLG HVTQHQLGSIEWFNKYSLSYY TVDTKPQFSHPTKDNKTGLTCR NRTTVGVDLQAKGNLVVKHLS SLQHCYEFICHI

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18456	48824	A	18563	1	3099	MGELITPLSTLDRSTRQKVNKD TQELNSALHQGDLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRIKNLTQNRSTTWKLNN LLLNDYWIHNEMKAEIKMFFET NENKDDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18457	48825	A	18564	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
18458	48826	A	18565	1	3095	
18459	48827	A	18566	2	2678	

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18460	48828	A	18567	1	2478	MKAEIKMLFETKENKDTTYQN LWDALKA VCRGKFIALNAHKR KQERSKIDTLTSQLKELEKQEQ TLKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDAINKNDK GDITDPTTEIQTIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPIGAEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIEKEGILPNSFYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRAKDKNHMIIISDAEK AFDKIQPPFMLKTLKKLEIKYL GIQLTKDVKDFFKENYKPLLKE IKEDTNKWKNI PCSWVGRNIV KMAILP/KELEKTTLKFIWNQK RACIAKAILSQKNKAGGITLPDF KLYYKATVTKTAWYQYQNRD IDQWNRTEITSEITPHIYNPIFD KPEKNQWKGDSL FNKWCWE NWLALCRKLKLDPLTPYTKIN SRWIKDLNVRPKTIKTLEENLGI TIRDIGMGKDFMSKTSTAMAT KAKIDKWDLIKLSFCTAKETT IRVNRQPTKWEKIFATYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYA AKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAIIKSGNNRTPTRPIQ
18461	48829	B	18568	1	3403	
18462	48830	A	18569	2	2976	APRFIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVHKDT QELNSALHQADLIDYRTLHPK STEYTCFSAPHHTYSKIDHIVGS KALLSKCKRSEITNCLSDHSAI KLELRIKKLTQNRSTTWKLNLL LLNDYWVHNEMKAEIRMFET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKRQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEIETQKTLQKINE\SR SWFFERINK
18463	48831	A	18570	472	829	AIASESASPKAWQLPCGAAQQF AALPGLGNYKFPLTLITGYGSN KSPP*GYLVFQTYSSLPLLRPP GHFGFLLPLSQRLRRELQCWL G*LTQTIKMKSVYHSTTEVRKS MHGIIQEIH

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18464	48832	B	18571	1	2293	
18465	48833	A	18572	1	3810	
18466	48834	B	18573	1	4107	
18467	48835	B	18574	87	3161	
18468	48836	A	18575	1	3192	
18469	48837	A	18576	1	1983	
18470	48838	A	18577	1	3156	
18471	48839	B	18578	1	3471	
18472	48840	B	18579	1	2337	
18473	48841	A	18580	1	3852	
18474	48842	A	18581	1	3057	
18475	48843	A	18582	1202	2004	SGIYMIGFEQVLKAQPPLSSPNG PMNKVATVVGMEVMHGLSNM DFHSRRLTWLRPLPGFTGPG/Y QGVKVEVAPLTITPSDPLAKFL LLISATSTSLEVTVPGEMLPPR DTTKIATFGTQTGFLALQLADG LLWDLVIIPGKGKPSRDLVESPS PYSTYEGIDGWPDEPAPTATKP PVMPAPALPPDTRSGSKAPTVP TPYPQMEHHQVQLASNNNSNTE ALGHLSPQSSWVQTPGQNSGP AIPNHLGKDMISPPQMAPAGVK WESQKY
18476	48844	A	18583	1	2832	
18477	48845	A	18584	1	3702	MQKKHDKIRNSFMIKTLKKLRT EGIYLNLIKATYKKPITNIIANGE NQKAFALRSGTRFWILALCQM SRLRKL TNYLSDHSAIKLELRIK NPTQSRPTTWKLNNLLNDYW VHNEMKAEIKMFFETNENKDT TYQNLWDAFKAVCRGKLIALN AHRKQERSKIDTLTSQLKELE KQEQTHSKASRRQEITKIRAE KETETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDTI KNDKGDITTDPT
18478	48846	A	18585	1	3139	
18479	48847	A	18586	2	2918	
18480	48848	B	18587	1	3242	
18481	48849	A	18588	1	3640	
18482	48850	A	18589	371	522	
18483	48851	B	18590	1	3918	
18484	48852	A	18591	1	3057	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18485	48853	A	18592	1	3233	MGKKQSRKTANSKKQSTSPPP KEHSSSPATEQSWTENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITTITNTEKCLK ELMELKAKAQELREECRLSR CNQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLTGVPESDGENGT KLENTLQDIIQENFPNLARQANIQ EIQRMPQRYSSRRATPRHII VRF TKVEMKEKMLRAAREKDRSTR QKVNKNTQELNSA
18486	48854	A	18593	965	4165	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRIKNLNQSRSTT WKLNNLLNDYWVHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLEKELEKQEQTHSKA SRRQEITKIRAELEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
18487	48855	A	18594	1	5093	MEGEMNEMKREGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHLKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSHSAIKLE LRIKNLTQNRSTTWKLNNLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDTF
18488	48856	A	18595	1	131	
18489	48857	A	18596	5382	9269	RAKSPANIIMTGSNSHITILTN VNGLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKK\AGVAILVS DKTDFKPTKIKRDKEGHCIVK GSIQQEELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRSTRQKVNTDTQELN SALHQADLIDIYRTLHPKSTEY TFFSAPHHTYSKIDHIVGSKALLS KCKRTEIITNHLSDHSAIKLELRI KNLTQS
18490	48858	A	18597	1	312	

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18491	48859	A	18598	142	876	RKKGILPPKESLKELEEEAEEEQ RILQQSVVKTYEDMTLEEDH EDEFNEEDECAIEMCRQORLAE WKATKLKNKFGEVLEISGKDY VQEVTKA/ERRALWVILHLKY QGIPLCALVNQHLSWTLPGSFP DVKFIKAISTTCIPNYTDRNLPT ILVYPGRRYQGLSLLVLWCLAG MNPDQEMSWEWKLSSEGAIMT DLEENPKKPIEDVLLVLSAALW SS*RGDS DSEGLRATASITCRT
18492	48860	A	18599	1	2310	
18493	48861	A	18600	3	1124	LYNRRRRRRCSHCRHRCRRLSS GLRKEEVISLGASLGRVFPVPCSP PTVSAARGPTGAPGGPNSKPLS GCCDDGFNLGRQQWGNPLPFC SKTISSSLHWTWSQVNLVEILP AIFSSFLNLQHVNLWFLAAAM KAVTEQGHLSNEERNLLSVA YKNVVGARRSSWRVISSIEQKT ERNEKKQQMGKEYREKIEAEL QDICNDVLVRGQCFCFEQWFL NSINLMYKRLSNYFRYLSEVA SGDNKQSK*YL*KEIRPVMPEV FFHRDFLTILIRLGLALNFSVFY YEILNSPEKACSLAKTVRKTL DI*P*QNSACVINFLFLNLRDN LTVSTTSTGFIVSFLFTYLIHHCY LQEGICTIKCSYSFKLLNLL
18494	48862	A	18601	340	1323	AARPQKRHNHSSLLTGSHIH WKRGRVQNIADVLQFCLYLLT VLFVPCSPPTGMTMDKSELVQ KAKLAEQAERYDDMACSSERH VTEQGVHELSNEEKKSCSLVAY K\NVVVGARRFLPGRVISSI*A*K QRRNEKKAADGQKSTREKIEG RTCRTFCN*CFWELLGQISLFPN ATQPRKVVFYFEK*KGDFYR YLF*KWQS*RQQTQPTCVGTSP ARAYPGSNLKI*LRKKMQP\TH PNSVLVLAPKFPQSFYEILNSP \EKGLVSLGKNGHFD*SNLLNL DTLEWKSLIKDSTSDSWQLLR\ DN\TLWDIRKTRGDEGDAGEG
18495	48863	A	18602	33	89	
18496	48864	B	18603	167	232	

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18497	48865	A	18604	14	600	MAELAPASPSDIKASVSNNGDTT LLCSRRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGGSLCPSR AW/PDPHQLFDDTSSAQSRGYG AQRAPGGLSYPAASPTPHAAFL ADPVSNMAMAYGSSSLAAQ GK ELVDKNVSGRGWWEWGDARG HRASDLSSASPD\HRFIPITKLKY YFAVDTMYVGRKLGLLFFPYL
18498	48866	B	18605	1	1230	
18499	48867	B	18606	41	931	
18500	48868	A	18607	3	166	PRPFPSRLPPGIIGGEYD\QRPN PILP\GRGGPNDRFPF\RP SRGRP TDGRLSFM
18501	48869	A	18608	212	1881	CLRVLLLKRTWPVEVPETGARP /TGGILRSHLRQSLCTWGYSS NTRFTITLNYKDPLTGDEETLAS YGIVSGDLICLILQDDIPAPNIPS STDSEHS\SLQNNQPSLATSSN QTSMQDEQPSDSFQQGAAQSG VWNDD\MLGPSQNFEAESIQD NAHMAEGTGFYPSRTPCSW*L NPVEGQVPHSLETLYQLADCS\ DANDALIVL\IHLLMLESYIPQ GTEAKALSMPEKWKLSGVYK LQYMHPLCEG\SSVTLTCTVPLG \NLIVVNATLKINNEVRKC*KGC SLLPESFICKEKLGENVANIYK DLQKLSRLFKDQLAHPLLAFTR QAL\NLPDVFGLVVLPLELKLRI FRLLDVRSVLSLSAVCRDLFTA SNDPLLWRVFIYCVNFRDNTV\ RVQ\DTDWERTVQGRRAHTKE KESPKGRVLWMLLAIRQTH\TIP FYSQPLWHPRGHFPKLPAPPPGI YSGGWNMDQR\PTFPYVGR TQ SSSLNSWVLGETPKPSFLPLRPR FDPVWPHFPGP*PPSLPRARAGP NDQISPFRPQQGSGQLIGRLSIH
18502	48870	A	18609	1	1065	
18503	48871	A	18610	1	1513	
18504	48872	A	18611	1	2247	
18505	48873	A	18612	3	421	
18506	48874	A	18613	1	103	
18507	48875	A	18614	3	435	
18508	48876	A	18615	268	501	QLECIPTWELWKEEQERAMA GGGLKKIISATEKKLARMLLAP SASWCCSGP*VFHGST*WGKPG PVSVSLLQGV LGK

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18509	48877	A	18616	3	296	EAMEAVILTCDPATPAASYQW WMNGQSLPMTHRLQLSKTNRT LFIFGVTKYIAGPYECEIRNPS*V PAASDPVTLESPELLFNGLATTE TLRKRGNP
18510	48878	A	18617	3	1464	GAVRTWGRGFQTEKCQASLLN FWNPPTTAQVTIEAEPKVS KG KDVLLLVHNL PQNL AGYIWK GQMKDLYHYITSYVVDGQIIY GPAYSGRETVYSNASLLIQNVT REDAGSYTLHIVKRGDGRGET GHFTFTLYLIPWTLLYL*RSLA QVSHYETPGKTAPPCGSTA**L N*PPDLTLFSPVLFLLKYPVPGQ AFQYPKGLKTIGSSITHL*DVLG KGSCREENIPRAAK*D*N*EDSST ACSK*GPQVETPKPSISSNLYP REDMEAVSLTCDPETPDASYL WWWNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRN PVSASRSDPVTNLNLPKLPKPYI TINNLPRENKDVLAFTCEPKS ENYTYIWWLNGQSLPGSVPR VKRPIENRVLIFTPCSRG IETGVP YQCEIRDRYGGHPQLPSHPGM SSITTKHSGLYACSVRNSATGM ESSKSMTVKVSAPSGTGHLPLGL
18511	48879	A	18618	79	1516	
18512	48880	B	18619	96	1730	
18513	48881	A	18620	9854	11033	ESLCFPKTEQEASQSLSP*IIHLS CDTCTSYWLSRTHVG*QVGDA NSE*RMPVEESKVPHTIFCYPH S\KLPMPIYTINNLPREKKDVL AFTCEPKSRNYTYIWWLNGQS LPVSPRVKRPIENRILIPSVTRN ETGPYQCEIRDRYGGIRSNPVT NLCEYPLFLCGPGHQLNSKRP EARPLSLSPVQV*TTLLDIRPG HDSLPWEILGRHSLNQEYKGRG ALVMGH*GPTACNERNRGIPQ AWA**T*MGFGCHRLCLGSEG HCVPLRDQEHPLPLDDITCGFIL FPPDGPDLPRIYPSFTYYRSGEN LDLSCFADSNPPAEYSWTINGK FQLSGQKLFIPTTNHSGLYAC SVRNSATGKEISKSMIVKVS GK WIPASLAIGF

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18514	48882	A	18621	3	1350	GRTAQLTAVLRKLLDPRLISTE ENTQAAETMGPLSAPPCTHLIT WKGVLLTASLLNFWNPPTTAQ VTIEAQQPKVSEGKDVLLLVHN LPQNLAGYIWYKGQMTYVYH YITSYVVDGQRIJYGPAYSGRER VYSNASLLIQNVQTQEDAGSYTL HIIKRRDGTGGVTGHFTFTLHL ETPKPSISSSNLNPREAMEAVIL TCDPATPAASYQWWMNGQSLP MTHRLQLSKTNRTLFIQGVTKY IAGPYECEIRNPVSASRSDPVT NLLPKLSKPYITINNLPRENKD VLTFTCEPKSENYTYIWWLNG QSLPVSPRVKRPINRILIPNV TRNETGPYQCEIRDYGGIRSD PVTNLNVLYGPDLPISYPSFTYYR SGENLYLSCFAESNPRAQYSWT INGKFQLSGQKLSIPQITTKHSG LYACSVRNSATGKESSKSITVK
18515	48883	A	18622	273	2271	CGSWLMTQFSMDKRQGRSRSV TITNTAVTSLEWVPPHAFAPRS TLVSQQGATSHDNTQEMDSP GQEPGFAKEVEVEPGFQPLPQM TLLVPAMCLLLHGACSAKGFC AAPHFLLASPMGKGQVPLNPFS FTLSEELDLPQSLKRNPKGCIAR RAKPILAAERHKRLILHTSTKEN TLLDNRVIECLTMEAVAKFNIM KEREPSHQPALSPPKARWHIL WQKLMFTASLLTFWEPPTTAR VTTEAMPFNATEEEEEFFLLA HNLQNLTRATIWYK\GQMRH LYHYITSYVVDGEIIIYGPAYSG RETAYSNASLLIQNVITREDIAG SYTLHIIKIRGDGTGGVTGRFTF TLYLETPKPSISSSNFNPREATE AVILTCDPETPDASYLWWMNG Q\SLPMTTHSLQLSKANRTLYLF G\VTNYTAGPYECEIRNPVSAS RSDPVTNLNLLPKLPKPYITINN LKPR\EE*GCLRPFTCEPKE*GTT PYIWWVKRFRSLPVSPGVKRP LKNRI\LIPTPVFTRKWQGPYS MWNYGDRYGG\IRSLPSSPWNV LLWVQDLPRILPFHFTYYRSGR KSSYLSCSGGTNLNPPAQYSWD N*WKSFQLTRGQKLFYSGHITT KHSGLYVC\SVRNSATGRESSK SMTVEVSDWDITLNSTSTNSIF
18516	48884	A	18623	1	1131	

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18517	48885	A	18624	1	603	MDIADPFSGFPMGMGGFTNMN FGRSRPAQEPTRKKQDPPVTHD LRVSLLEIYSGCTKKMYQED\KI SHKRLNPDGKSIRNEDKILTIEV KKGISLPEALCG/TTVNVPTLDG RTIPVVFKDAIRPGMRRKVRGE GLPLPKTPEKRGDLHIELEVIFPE RIPQTSRTILEQILSSYLSYLSSP GLTRDLSRAQGFLDLSTSCGP
18518	48886	A	18625	3	1228	WSAAEPVDGDSGSAGRRRGPW PKTTYHPWAVARGASEKEIKR AYRRQALRSHDPKNKEPGAEE KFKEIAEAYEVLDRPRKREIFD HYREEALKGSGPSGG\SGGGAN ATSFSYTFHGEPLAMFAEFFGG RNPFDTF\GQ\RN EEGMDIDD PFSGFPMG/LWGGFTNVNFGRS RSAQEPARKK\QDSPVTHDLRV SLEGDLTA VPRRCKKMKISH KRL/NTPDGKSIRNGDKILTIRSE RRGWKEGTQITFP\KEGDQTSN NIPADIVFVLKDKPHNIFKRDG SDVIYPARI\SLREA/LCVGCTV NCPHSGTGRTIPVVFKECYQGL GMRRKSSWENGLPLPQNTREN VGDLII*GFEVIFPERIPQTSRT VLEAGSFQYSYLEVPQGLTRGP FPELKDFWDLFLPVVGP
18519	48887	A	18626	321	1121	GDAVPSAPRRPSRRTPGCGSRG ALQPGPPRA\PPPEP/PPRGAAA AAPPAGPAAPAARQPPRRPPAQ PRSCPRRV RPTPAWSPPGRRGP RRSRRRPPGGPGPAAPLRLSRA HSPAPPGPSYRPHGAGTSVAP WTRPPAARGTEADPGRCPV SAP GTAPGQMRGRGSATQRLHRGH STAPGAGGRCGRRPGGSGRPG AGAGPRRSTAAPPRCRRRSPTG PRSPRGPRSARPARGSVGGPRG TPGKQPGPRRA*TSGP EPRCCG HARG
18520	48888	A	18628	191	653	KLEIQRLLRMTTECIRHTKQKK FGSPGLQPPLPGNAKSRADSTA LPALPAQQKETKQQEPGESS*E PGGSSPSRMERAEAAPAQ S/PA GGTGTGQGWGAPHLGPALARR VTGPPQHGSPPRTRPTYPAR C/PSRPIFVPAIVWSRLRAPGLP
18521	48889	A	18629	141	319	

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18522	48890	A	18630	178	722	PLGNVSCSHRSFQTARVDYSLI YVLA WGQKKEVWELRNWQTH ALMKLKNKLREPRTSVNKD/SP KSLLYSCSYSYFDEPVELRSSSF SSWDDSSDSEYETHLLHLKLV* PNLAVFNCRPTARRKPDYEPVE NTDEAQNSFCKTAHNLWSLTFP FPCLL*YETRARLESWSLSCLR YEHISSG
18523	48891	A	18631	2	367	
18524	48892	A	18632	1	381	QRYSSRRATPRHIIVRFTKVERK ETMLRAAREKGRVTHKGKPIR LTVDLLAETLQARREWGPFI LNEKNFQPRISYPAKLSFISEGEI INPQMLR/DFVTTRPTLRDLLKE ALNMERNRRLPGRPL
18525	48893	B	18633	1	846	
18526	48894	A	18634	3	1170	VGSMTGEASGNLQSQRKAKRK EARLTCLEPVEEPGSGTHPPMC YLAPPMWKCQKQKPGTGIKEGDR DHNSLPAREENQTENESDELTE AGFRRWVITNSSRLKEHVVTQC KEAKNFEKSLKELLTRITSLEDN INYLMEPRNTAREHREAYSSIN SQIDQAEKIPEDQHNEIKRE DKIREKRMKRNKQSLQEIWDY VKRPNLSLAGVPESDEENGIKL KNTLQDIIQENFPNLAKQANIQI QEIQRTPQRYSLRRATPRHIIVR FTKVEMKEK\MLRAAREKGRIV THKGKPIRLTADLSAETLQAR/ RTEWGPFIENILKEKNFQPRISYP AKLSFISEGEIKYFTDKQMLRD FVTTTRPALKRAPGKEGT*TLE RDNRYQPLQKHAKL

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18527	48895	A	18635	73	1504	QDLRLFYLKDTMFSKLAHLQR FAVLSRGVHSSVASATSVATKK TVQGPPTSDDIFEREYKYGAHN YHPLPVAL\ERGKGILLMGM*E GRKYF\DFLASSYSALSNOQ\HC HPKIVKCSGRVKWDKIDL*HLE AFYNNGTLVNMREYYY*TFST YHKVLP\MTNGVEAGETA\CKL AIRKWGL/YTVKGIQKYK\AKIV FAAGNFWGRTL\SAISSSTDPTS YDGF\GPFYARDFDIIPY**SCPH MEQCSFKDPKCGLAFHG*EPIQ G\EAGVVVPDPG\YLMGSAESS GTRDQVLFICLMEIQTGLARTW *DGLAVDYENVRPDIVLLGKAL SGGLYPVSAVLCDDDIMLTIKP GEHG\STYGGNPLGCRVAIAAL\ EV\LEENLAENADKLGILRNE LMKLTLP/SM\LV\TARKKEKGIY LNAHLAIKGNQKIWDA/WGKV CLRLQDNGLLPKPTSVATLSRF APPLVIKED\ELRESIEIINKTILS
18528	48896	A	18636	2	348	
18529	48897	A	18637	588	801	RTAYFCQYHTASVYSERAMPP GCPEPSQA*ELQETGHRQVALR RSGRPPKCAERPGAADTGAHCT STDGRL
18530	48898	A	18638	175	510	NSESPGPLWWLSCDNPAKDRIY STEADGLGLPDQSFVVHRAQL* CVAG*LGTHSRFQEWAV*D*SD LLKAQLHFKVGRCVWEAGGGL EWVLGGRCRCRVPPPLETLIQ WGPW
18531	48899	A	18640	1	1431	
18532	48900	A	18641	202	994	RWQGQRLLLDSNIRLWVVLPIR YSFTFFRRALIRHYV\SILLAERQ RSFTQGNKYLDSSSPNFEGRV/R FRGKLGNYIPKQSFFG/RRKFLF FPNPEDGIFSKKLKREVVPPSPM TDPTMLTDMMKGNVT\NVLP ILIGWINMTFSGFVTTKV\PFPL VTLRF*A*WLQQGNRSYSPFCI PG*/WFCIPGYFPQCILGFRSI/YT LWISGGKDN\GRWNQSRMM/DR SRMTGASHGPWPADSGRRFPN KRWEAL\ELTDHQWALDAAGE DAA
18533	48901	A	18642	97	224	LPTKSTWVAGKK*KKRSNIKD YSTPLTSYRSIRSHAFKIVAS

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18534	48902	A	18643	117	457	IWGDVEKGGK\KVFYL*RCSQCH TV*/ERGGKHKTGPKSP*VSFGR RTGQAPWDTLYTAANK\NKGII WG\EDTLM\EYLENPKKVHPLD TKMIFVRHLRKREERADLIALS SKKLLN
18535	48903	A	18644	411	1054	VTGAQRLVTCRMGKQNSKLA P\EVME\LVKSTEFNEHELKQ WYKGF\KDCP\SGRLNLEEFQQ LYVK\FFPYGRR\LP\SAQHAFPN LSTRMGDGT\ID\FREFICAL\ITS RG\SFEQKL\NWA\FNMYGPGW VMGKITRVEML\EIHRGLSYQN G*GTVIMMKMNEDGLTP\EQRV GQDFSARWVRNKDDQIYTGID FKGSCQRADPFIV*LL\QCDIHK
18536	48904	A	18645	3	475	GAEGARGGGSSYSEMAETVAD TRRLITKPQNLNDAYGPPSNFL EIDTNLP\IFKLKESTVRRRYSDF EWLRSELERESKVVVPPLPGKA FLRQLPFRGDDGIFDDNFIEGKK TRGWEQFINK/VSLGHPLAQNE PLFFHMF\QDEIIDKSYTPSKIR
18537	48905	A	18646	1	695	LRARSLRDRCARAPCPHGGQQ RRRRRLNAEGAEGARGGGSSY SEMAETVADTRRLITKPQNLND AYGPPSNFLEIDVSNPQTVGVG RGRFTTYEIRVKTNLPCFQS*KN LIVRR\RYSDFEWLAKWNLERE SK\VVVPPLPG\KAFLRQLPFRG DDGNILMDNFI*/EERKIRGWSS FLNKVA\GHPLAQN\ERC\LHM VFYQDEIIDKLLLP\SKNKA WKFGPRKGAKNVVDY
18538	48906	C	18647	3	474	

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18539	48907	A	18648	156	1254	RPLHTLEVLRMTKRLVTKAA ASAARAQPAEPRDRKYDKHLS YLATWGRSAGRAGSPRGARGR ELARAPVSLPAGVPGRGSAAG HSSEARTGPNKGKMGSSREPGT EKVPCPRGLSPTREVGHQVHGT LGAGPNELHPSGPAGARCRPGR REAKLGDAARSEAQSSAHKFHI DSLSPWNPTAMEMLMPKKNR \\AIYE\\LLFK\\EGVMVPKK\\DVPI PKHPELAEQKCAPTFHVMKIA - MQ\\SLKSPRT*KEQFAWRHFY WYLT\\NEGIQ\\YLRDYL\\HLPPEI VPAHPYGRSPSRRLARPRPKKV WKGEATLRDFTRGeadsFLCH S/DSYRRSAVPP\\GA\\DKKAEAG GLGQKPNFQ\\RGGFVRGRGQ\\P
18540	48908	B	18649	1	1053	
18541	48909	A	18650	1	529	MGRYMEREPLOQNHRRSGLSG ERCSHMGGLIERRELQTETRK EGVVEWCWLEKEVLATITKPV RGDKNGGTQVVKHRKMPRY PTEDVPQKLLSHG\\KKPFSQHM RKL\\FLYRRHARNLSLPPQPELI SDVK/IPRHPADA*LEEQLSEP E/HSEGTSY*RIPEKVLSPAIRP
18542	48910	B	18651	258	363	
18543	48911	A	18652	197	398	ARMSQEKDFHKVMSALKARTG HLHFFCGGMSSVKVGQGFSLLL *FFSYFRPSGCILPL*ELPEARCP
18544	48912	A	18653	215	932	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPVLCSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP*VASPLF*RSKYPNLVSL CPSPLFPRPDLLSLWPNFLFRTPT TSYISVPQSLISMPRPLISAPQPLI STTQPLSRFSGRSLLQVPEIWPP GQGMPAARDSS
18545	48913	A	18654	1	378	
18546	48914	A	18655	14	380	
18547	48915	C	18656	228	260	
18548	48916	C	18657	99	335	
18549	48917	A	18658	55	474	RQVPLFWGRGKYPNPFSLCLYP FSAFLGGKKHPTSPSP*VASPL F*RSKYPNLVSLCPSPLFPRPD LSLWPNFLFRTPTSYISVPQSLI SMPRPLISAPQPLISTTQPLSRFS GRSLLQVPEIWPPGQGMPAAR

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18550	48918	A	18659	1	187	AELATGNVVKVEASGTPEEKAG SVLG*ACFAGP*ERCCWQNN*D GIISIQSYCLCNLGCFIQT
18551	48919	C	18660	1	357	
18552	48920	A	18661	3	148	
18553	48921	A	18662	1	312	
18554	48922	A	18663	149	457	
18555	48923	B	18664	1	675	
18556	48924	C	18665	110	928	
18557	48925	A	18666	495	817	LTSPSRCTIIEKSCSSLPPL*DKP QPHLQHTRTSKRLNCSSQVFLQ NLLPEELATSSRNLATGPRNAC SPGFLLSHIPSVWDPTGNRTVQ LTWQPLPEPELELWPKAL
18558	48926	A	18667	228	3021	VFDRTQNVQGRIMEAPEYLDL DEIDFSDDISYSVTSLKTIPELCR RCDTQNE\DRSVSSSSWNCGIST LITNTQKPTGIADVYSKFRPEKR VLPLKHQPETLENNESDDQKN QIVGEYQKGGESDLGPQPQELG PGDGVGGPPGKSSEPSTSLGEL EHYDLDMDEILDVPYIKSSQQL ASFTKVTSEKRILGLCTTINGLS GKACSTGSSESSSSNMAPFCVL SPVKSPHLRKASAVIHDQHKLS TEETEISPL
18559	48927	A	18668	1440	1764	ERSTYNLRSSDQP/RPRNILT NF KS/VDKGDTFYPWTHNSGASH GLGRIRLPWC*ELATSARNLTP RPRTAGSPGFLLSHVPSVWDPT ANRTVQLTWQPLPEPELELWPK
18560	48928	A	18669	1	3255	MLTLTGAGGESWIIRPGNLEQ LGAEETLGRREQPGDEVTAHFL LQGVINMGVPYPGAHSSNMP GSVSPILGHSVKLFEEYYPVGD PLMGSGRPHTPRKKIWSDLNA HSDLYLALDWTPLPEQSEPGPG LAAWKPFQAEYTCCKAEGNE NTPFDLRKGTLP CPRNLERARQ AYMHIEEKFPFELTEQHICEFQS MCYVLVRVLGACSQSTWLILEP DGVSGPSKGASEAIGQCQSSAA KPRRSGKESVREPWA

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18561	48929	A	18670	1	1442	CSEYEDSSPAPVPATDLSSTLSS SVPQPQDTGTSQQLHPLDPWHE LLRAQELQGATNHKGYSHAEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWFVSGFQAFSDRLKA ALSASLLLRFGSDSWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTRL QKRKKGMPPHPA/S*GPKHSCH HSPCQCCPSSAK/SASELQGSWT PFGGLLTRTRMKFGAKTRDLD QGTSLGRSLPCPPTLCSMRKIHL RPQVLRPTSPRNISPISNPRQRR QVLSMDPKLRHRSRTGK/DSL LVFNHCRDTSIIHPCFKGVRPR RDACLGPSPLAASPAFLEKGQD LINLAFKVYNNRKKLQFLASTV RQTAATSPAHKNFQMPEPQRP GVPPEPPPTGACYMCRKIWPLG QANARSPGFLLSRVPSVRDPTG NRTVQLTWQPLPEALELWPKA
18562	48930	A	18671	140	327	
18563	48931	A	18672	95	115	IIRHLCND*TPREGCLPSP*PAW SDTFETWVNNQASLQ
18564	48932	A	18673	218	674	MPISRPTARFKRIKVVYHSPAT AWPSKAYKLPLQFPHTCPKTR QGLQVTSGSAPYQPNCFVYPPR VAKTKYSPILNTSLHNPLLCSGS QTCFLY/SFLCTFHPSLSSLSLGL TLTPIRLSKLRGLYCHKASQTA PITSIKPKFLPHLLPISA
18565	48933	A	18674	1	268	
18566	48934	A	18675	1	458	
18567	48935	A	18676	3	461	LLLTQSLFGGLFTRTRMKFGAV TRIGGPPLGNQSPSSCSLLHEKD PPTTSGPQTDQPKKHLTNFKSA ARPTFLGQGQVPLNPFSTLS/E QVLLS*AARTPQSLISTPQPLISV PQSLISVPQPLLYFSGGQEPPIPP LLCVSSLFSRLASFTM
18568	48936	C	18677	156	329	
18569	48937	A	18678	449	667	
18570	48938	A	18679	79	311	

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18571	48939	A	18680	1	693	MAPTNCKGSRKCGRPHEQMPH PYLPLLTLFSDSARLHPGEINSR VPHTKPVWWSLHTDAYEIIWYH DSDWGDLPWEINPLSSCSLLHE KDPPTTSGPQTNQKEHLMNFK SGPHWKSDCPTTRQPLPGPLELW PKA/HLTDSFPDLLSLAAED*CC LIALEAPWTITDAELWITLTVED SQLYEDTLAGRSVLIKNLTP*TL Q/PLDGLDPT*SSIVPQLPSACRI LPTGFTVPE
18572	48940	A	18681	328	865	
18573	48941	A	18682	451	1238	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STS FVFSSCIPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYSMAF *SL*TLLTIPPFYLS*NQRRFTG* FRICALSTKLFCLSTPWCQTHIL SYPQYLPPQSILFWISNVLSLLF LCTLHPSLSSLSLGLTLTPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
18574	48942	C	18683	870	1037	
18575	48943	A	18684	933	4323	AASHLCGTPLEIGLSNSPGSHSQ SPWNSGPRLSDCFDLLG*VAE D*HCPIASEASWTVTNELWVTLT VEVAATALILLEALKITSYAPLT LYSSHNFNLFSSSHLT/PYTFC PQ/GPFSYTHSLLSLPQSPLLLA QTSIRPPTLFLIPHLTPMTVSL*S/ ILTFIPFPHISFFPVPHPDHTWFD GSSTRPNRHTPAKAGYAIVSST FII EATALPPSTTSQQA KLIALTQ ALT LAKGLLVNIYTDSKYAFHI
18576	48944	A	18685	849	1944	WQVPLFSGRGKYPNPFSPCLYP FSAFPGKRQELATSARNLSDHQ AKECLQPRIPKPCPIFAGPHWK SDCSTSPGQPLPELELWPKA/H LTDSFPDLLGLAAED*HCPIAS EAPETITDAELPVTLTVEGKSIP CLIDTGATHSTLPSFQGPVSLAP ITVVGIDGQASKPLKTPPLWCQ LGQHSFMHSFLVIPTCPLPLLGR NILTKLSASLTIPGVQLHLIAAL LPNPKPPLCPLTSPQYHPLPQDL

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18577	48945	A	18686	2	377	KGATIVYALDTLFIMEMKHEFE EAKSWVEENLDFNVNAEISVFE VNIRFVGGLLSAYYLSGEEIFRK KAVELGVKLLPAFHTPSGIPWA LLNMKSGIGRNWAWASGGSSI LAEFGTLHLEFMHL
18578	48946	A	18687	215	1135	PITLRRHLFFSGIGRNWPWASG GSSILAEFGTLHGMKIVF*/HFH GNILFSI\KVMNIRTVLNKLEKH YLN*KLNHSKIHFPLFPDHVS GGLGDSFYEYLLKAWLSINLRR DYKMLKNKCFSAIETHLRKS SSGLTYIAEWKGGLEHKMGH LTCFAGGMFALGADAAPEGMA QHYPVSTVQENNPYSFPCPLV MKLGPEAFRFDGGVEAIATRQ NEKYYILRPEVMETMYMFRL SGSDFSSFLLLPPQASSCFQTLF DLFKVPDSLCSILEFRRHSSRQP YSTDQPFYILVGKRILFCPLT
18579	48947	C	18688	304	400	
18580	48948	A	18689	16	450	
18581	48949	A	18690	1	777	GHSMDMRVPAQLLGLLLLWLP GARCVIWMQTSPGTLSPGER ATLSCRASQRVNSNYLA WYQQ KPGKTPKLLIYGASNLETGVPS RFSGSGSGTDFITISLQSEDIA MYYCQQYNNWPHPS\TFGQGT KLE\IKRTVAAPSVVHLPGPS EQLKIWELPSACVPA*NNFYYPQ SRPKVQWEGGITPLQ\SG*LPQE SVHRGRTRQGTAPYSPQAPW TVRQSRITEETQSLTACEVTPS GALRFRPVHKGAFNRGESF
18582	48950	A	18691	3	688	HASADAWAANAEEHRHDRPR GTLR\EYKV\VGRCPLTPK\CHT PLLPACEIFAPNHVVAKS/RAF WYFVSQK\KMKKVFGKIGL LVGQVF*ESSPLR/V*KNFRGSW LAAMDSRERAPTNMLPGNNRG P*PPAGGCSTQLLTRDNGVAPG TGAPKPHFHFRIERLEGRFAG QQSCRRP/ALVQSSFH\DSKIKFP ACPNGVLARRQHKPRF\TTKRPN TFFLGAGPSSGVC PK
18583	48951	A	18692	1	784	

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18584	48952	A	18693	1	4713	MQGPYLLLWLPDSLEEGKEGL YLGNCIHTCLVTPEDAFFPHF LTQHSGTHLPPSSDIPSHFMNNS TGRLAQRILGTSTEAFLSPEVM VVFHARNATVRTAMSLIERAK NCGHIPFFFTQGH DYVLA EKQ VQSRNKQVRELFPDGFSIHHA GMLRQDRNLVENLFSNGHIKV LVCTATLAWGVNLPAAHVIKQ TQIYAAKRGSFVDLGILDVMQI FGRAGRPQFDKFGEGIIITTHDK LSHYLTLLTQRNPI
18585	48953	A	18694	313	489	SSCFKLHFQQLFKNCNTQMRN QIGFLRF*NNLVMLLSSSSVTNQ LELQKKIILLTCKMQ
18586	48954	A	18695	1	851	ACGWALAQRPARRAMVAGID AGRS LGVLSVVCLLHCFGFISC FSQQIYGVVYGNVTFHVPSNVP LKEVLWKKQKDKVAELENSEF RAFSSFKNRVYLDTVSR*PSLST T*TSSR*KMKYEMESAKIVTDVT MKFLPYVP*VSFQSPTLTLCALT NGSIEVQCMIPHYNSHRGLIM YSWDCPMEQCKRNSTSIYFK MENDLPQKVIQCSLSNP/LFNTT SSIILTTCIPSSGHSRHRALIP LAVIPTCIVLYMEWVF*KCARN PDRTQLQLIGNRRMKTTA
18587	48955	C	18696	35	181	
18588	48956	A	18697	75	344	PQVLRPTSPRNISPILNRVSDHA GTPALVLHP*RQVPLFWGRGK YPNPLYLCAPIPYFRT/HNLISLR PNPLCPHPDLVSLCPDPFPAFLE
18589	48957	A	18698	1	268	
18590	48958	A	18699	39	376	QYISELQFLASTVRQTPATSPA KNFQTPEPQQPGIPPEPPPGAC YKCWKS GHQAKECLQPGIPRK PRPISGSHSQSPLELWPKA/HLT DSFPDLLGLAAED*HCPIASEAL
18591	48959	A	18700	2	295	CQTTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RQVPLF WGRGNHISGTQELPNT*TAV/V QAF/LPEPPPTG/CLLHVPEIWPL GQGMPAGQDSS
18592	48960	A	18701	81	402	VKFGPEIWC RDSDQGRGGVGT SLGRSIPCPPALCSVRKIYLRPL VLRPTSPRNISPILNRDPTVQLT WQPLPELELWPKA/HLTDSFP DLLGLAAEDRCCPIASEAP

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18593	48961	A	18702	165	439	PPRQAKMQNLAAPGSHSQSPW/ TLRPKAL*LTSPQIFSA*RLKTD TARSPRKPPSFQGPVSLASITVV GIDGQASKPLKTPQLWCQLRQ YSFK
18594	48962	A	18703	284	511	IILVVKWANGLRCLTSRHSFTH QSLPS/PLCPVQLVPNSRLSPQS QPQASLSLSNLPFLQTHLTSPFL PRLLARPK
18595	48963	C	18704	414	557	
18596	48964	A	18705	1	1284	MNFEGTETLHCNGHCKVIAMT LGNQEVNQRFSTGTTGPMEG MWLLSSNSHSLKYAGALAILS AFQYQERGSQAGHRDSWPETK ETHFICGPKTPALVTDWEGSLP LVFNHCRDASLIHPRFSGVRPR RDACLGPSPLAATPQTITDEL WVTLTVEVWDIST/LFPGN*SH A/TLPSH*NLITLPLNANI/AIPQ HALKGLKPVITRLLQHGLLKPI NSPYNSPILPVQKLDKSYRLVQ NLRLINKIVSPIHPVVPNPFAFTS QITQAVSQALGIQWNLHIPYHP QSSGKVERTNGLLKVHLTKLSL QLKKDWTVLLPLALLRIRACPR DATGYSRFELLYGRTFLLGPNLI PDTSPGLDYLPLVQQARQAAN LLLPTPDPQPHEDTLAGRSVLV KNLTPQTLQPRWTGPHFIYSTP TAVCLQDPPH
18597	48965	B	18706	1	933	
18598	48966	A	18707	3	435	TKETGFIHGPKTPAPVTDWEGS LPLVFNHCRDTSIIHPCFKGVR PRRDACLGPSPLAASPAFLEKG QDLINLAFKVYNNRKKLQFLAS TVRQTAATSPAHKNFQMPEPQ RPGVPPEPPPTG/CLLHVPEIWP LGQGMPEARSS
18599	48967	A	18708	2	111	
18600	48968	B	18709	1	595	
18601	48969	C	18710	1	1344	
18602	48970	A	18711	227	385	VPILPQPLLLHPAIFLSPPLTPG PAYSFVP*LALPHLPSNLLKKR WLEPKA
18603	48971	C	18712	148	258	
18604	48972	A	18713	215	693	
18605	48973	C	18714	1	816	
18606	48974	B	18715	1	513	
18607	48975	B	18716	1	1452	
18608	48976	A	18717	1137	1303	

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18609	48977	A	18718	2	2107	IDMIFTGPPSTPKHKKSQKGS AFTFPSQQSPRNEPYVARPSTSEI EDQSMGKFKVVERQVQDMG KKLDFLVDMMHMQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSPYGFFAHDPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPILTLLDSRVSCHSQADL QGPYSRDRISPRQRSITRSDTP LSLSMVNHEELERSPSGFSISQD RDDYVFGPNGGSSWMREKRYL AEGTDTDTDPFTPSGSMPLSST GDGSDSTVPLFLSSEILQKQVG QSITSMGLFSLRGPSMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFFSLLSVTSYS SFAFHKFSVAVYNISNLKTVDP AKFPTRYCYCLNNRTNDLSDF ALLVDIIGNSTSYLTEIFKSTSIL SVNQSNESDCIFICVMTGKSGR NLSDFWEIEEKYPIINYTFTSGL SGVLALLLTQSLFGGLFTRTRM KFGAVTRIGGPPLGNQSPSSCSL LHEKDPPTTSGPQTDQPKKHLT NFKSAARPTFLGQGQVPLNPFS FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPPPPLLCVSSLFSLASFTM GAFTHGTQTPSPTKATAPRYPQ TGDLSAEWPFTAGEEPVLVPRP
18610	48978	A	18719	828	1063	RHSQAED*HCPAL/VPQTIID AELRVTLTVEGYSLPPGCLRGL MLSVSGFSRSTVQAVSGSTVLG SGGQWFSCASV

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18611	48979	A	18720	183	1140	LGSGDLPWEINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSG ETKEMHFIRGPKTPVPVTDWEG SLLLVFNHCRDGLSDHSATFQG CQT/MAGMPALVLHP*RQVPLF WGRSKLLLARLS*VPILPQPLLL HPIILLSPPLTPGPAYSFVP*LS MSIHQVVLRPDEQGPGEQQPP LYVMEPGEINSFIAHTKPVWWS LHTDAHEIWCHDSDRGTSLSGRS IPCPALCSVRNIRLRPQVLRPTS PRNISPILNQERQRRCIFVDPK LRCQSRGTGKAASFWSCLIIAGTA SLIIQPHFKGVRPCRDACLGSP LAASPAFLGKEQAAPCQAEGLP NSSASAPPPYNPFITSPPHTRSG LQFRSVTSPPPAQFTLKKVA GAKDIVKASLAPALAQGVPGTP QATASEGASLKSWECLCGVNL ATAQSARVKEACQEACQSLPRF QRMYEKAWVPKQKTTAEVELS QRASTRVVLRGNVGLESRSRVF SIALSSGAVGGVHCPSDHRMIE PAAFNLSMKNPQRQSCSLRA
18612	48980	A	18721	372	906	LRSADLPWEINPLSSCSLLHEKD PPTSSGPQTDQPKHLTNFKSE KKETRFIRGPKTPAPVMD*GRQ PSLGV*PLQGCLSDYSPRFQRC QTTQGHLPWSFTLSSKSHFSGG RGKSLLQVPEIWPPGQGMPPAA QDSS*AVPICAGPRWKSDCPTH LAATPKAPGTLAQGSLLTPSQIFL
18613	48981	A	18722	983	1980	KFGLVQLTLGKPLPEPELRLPK A/HLTDSFPDLLGLAAED*HCPI ASEAA*TITDTELRTLTVEVW DIST/LFPGN*SHA/TLPSH*NLIT LTPLNANI/AIPQHALLKGLKPVIT RLLQHGLLKPINSYNSPILPVQ KLDKSYRLVQNLRLINKIVSPIH PVVPNPPAFTSQITQAVSQALGI QWNLHIPYHPQSSGKVERTNGL LKVHLTKLSLQLKKDWTVLLP LALLRIRACPRDATGYSRFELL YGRFTLLGPNLIPDTSPLGDYLP VLQARQAANLLLPTDPQPHE DTLAGRSVLVKNLTPQTLQPR WTGPHFIISTPTAVCLQDPPH
18614	48982	B	18723	1	271	

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18615	48983	A	18724	803	1158	CSWHDRFPDWKAGNLLSLAA* D*HCPiASEAP*TITDAELQVTL TVEGSGDLPWEINPPSSYTLCE KDPPTTSGPQTNPQKKHSHQFQ IRDKGDTFYPTHNSGASHGL GRQPSLGV
18616	48984	A	18725	1855	2506	GASPSVWDPTENRTVQLHLGS HSQSPWNTGQSRDLTSFPDLL GLAA\ED*HCPITSEAPLTITDAR AMG*LSTVEGKPVFPFLINTEAT HATLPSFQGPVSLASIT\VVGID G\QAF*TSKLKLPNSWCQH*TIRR FKHSFLVIP\TCQVPLLG\EDTLT KLSASLTIPGLQLYLIATLLPNP KPPLCPPLVYPHLNPQV*DISTP SLGDRSCTPYHLIKT
18617	48985	A	18726	2	979	TSTMAVGKNKRLTKG\GKKGA KKKVVDPFPR\KD\WY*RRKHPL MFH\IRNIEKDVGSPRTPRDPKL QSDGLKGSVCLKVSPAELPE*L KFAFRKFK\LITEDVSGVKTCPD LTSHGAWDLYP*QNCCSMVQK MGRPMIEA\HVECSRLTD\GYLL \RLFVGFY\KNRNISDHGRPSY AQPPNRVR\QIR\KKMMEIHDPQ RLQTNVP*KEVVNKLIPASIGK\ D\IEKACQ\SIYPL\QNVF\VKKV KMLK\KPKF\ELGKLMELHGE SSSGKATGDETGA\KVERADGY GPPVQESV\GKFRLPIVGNRSGH CVKKEKQSSRRRDFGVSVHPRI
18618	48986	A	18727	1	615	ASTAAPRMLLLFQPRYRTLQPQ RLLMPPKKNR\IAIYE\LLFK\EGV MVPKK\DVPIPKHPELA\DRNVP NLHVMKAMQVSQSPRGIVYVK\E QFA/WKKISYWCLTN*GYQGVS ISSRDYL\HLPP\EIVPA/TPLRRS RPED/SGRPSA*KGLEG*SDLAR LHKNGEAGQRLPYRR\SAVPPG \ADKKAEGGLGQKPEF\QF\RG GFVRGRGQ\PPQ
18619	48987	A	18728	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL\GILLHL ESELAQTRAEGQRQAQ\EYEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH

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18620	48988	A	18729	323	1973	PCMWIGFAAVRKGLKDSSASC GCTRRVRGTWWQGLSRVCVA RNEEVRLWGLCWLGSPPAGW NNVFYMLISADVLACLEPRAN KEAANELAGAVDLGWMANVR RNPRDMVTSTHLGTHFHLRKT PRGEKTCELASQQPLIEATTKT KSAVAVSHILTYTPPTLNGVAAV SSRVHFSFWPPTLQTGLEQGS SFTICFTTSTNYQSLHSIQPHSHS VQFISSTAKVYAVLRGLGSR VSFSTFSWGSWGSGGLAAGMP GIDNARLAADDFRVKYKTEL MCLSVESNVRGLHKVTD TRLQLETEMEALKEELFMKK NQEKEVKGLQALIASSELTMEV NAPKSQDLSNIMADLPAQYDEL ARKN*EELDKYWSQED/IEEHT TVVTNTSLLEVWSC*DARLTEL RRTSPGLWRFDLDSMRNLKAS LENSLAREVEAPYALQMEQLN GILLHLESQLGQTPRTEAQRQA QEYEALLNIKVKLAEAEIATLP GRLLGRMAKDFNLGDSILDER NSFQNLQKTNTPPGNVDGKVV SLETNDTKVLRH
18621	48989	A	18730	1	897	MGHHRQSLSPVLSLYSPDSMS FTTRSTFFTNYQSLGSVQAPSY GARAVSSAASVYAGAGGSGSRI SVSRSTSFRGGMGPGGLAAGM AGGLAGMGGIQNKKTMQSLN DRLASYLDRVRSLETENRRLES KIREHLENKGPQVKDWSHYCK TIEDLRAQIFANTVDNACIVLHI DNARLAADDFRVKYETQLAMR QSVENDIHGLRKLTEIEALREE LLFMKNHEEEVKGLQAQIASFR LTVEVDAPKSQDLAKIMADIRA QYDDLAKGNREELDKYWPQQF EENTTVVTQSAEVGAA
18622	48990	A	18731	3	423	SLSPVLSLSPDSMSFTTRSTFST NYRSLGSVQAPSYGARPVSSAA SVYAGAGGLATGIAGGLAGMG GIQNEKETMQSLNDRLASYLDR VRSLETENRRLESKIREHLEKK GPQVRDWSHYFKIIEDLRAQIF ANTVDNAR

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18623	48991	A	18732	663	2089	AFTTRSTFSTNYRSLG\SVQAPS YGAGPGRAARPASYAGAGGSG SRISVSRSTSFRG\GMGSGGLGQ RELAGG\LAG\MGGIQ\NEKETM A/QALNDRLLGLFTWDRVRS LG DRRTRKLGRAKFREHFGRKKG PQ\VR\DW SHYFKINEDLRAQIF RKYLLDNAPHPFLQDLTIAPSL LD*F*EFKY*GQSLAMRQFLWR NDIPLGSAKV\IDDTQYHTDLQ AWRQRFEAPQRRELALSMKKE PRRRKLKGLSSPRLPSSWG*PVE VRLPPNFQDLRQRSLADIPGN MNELGSKKNPRRKLQSTWSQ QI*GRAPQLVTTTSLLEVGSLLK TTL/TQKLRRTPGPWKIRPWT MKKS*KAQLGRNSP*REVGRPP YGPYKMEASFKRGSLLHP*SQS W/QTRPGAEGTAPQAPRSYEGP C*NIKRSKLEA*DRPPYPALLE D\GEDF*SLVDPLDSKQLHAKPI QKTTTPPG*VGLGKVVS
18624	48992	A	18733	53	1100	NFRVEAGVRGVQQKETCAFKV LES\GKFGLALAVAGGVVNSA LYNVDAHVHRAVIFDRFRGVQ\ DIVV\GKGTHFLIPWVQETQLS FD\CRSRPRN\VPSQSTG*AKDL QNVQHHTAASLFRACRQPSFPR IFTSIGEDYGWSVCLPS\ITTEVL KVS VGS LWMLGELITKRE\VS RQV\SDDL\TERAATFGLILDDV SLTHLTFGK\DFT*A VEAKQVA QQEAEKGQICWLEKAEQKK\ AAIISAEGDSKAAELIANSLATA GDGLIELRKL/E*AAEDIA YQLS RSRNITYLPTG\QSVLLQLPQLR GPPLPCTSRGLDLGPQPRILNN SLSFLLPTPEINCEIFMIGLK
18625	48993	C	18734	222	458	

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18626	48994	A	18735	2104	2758	QFCPSRQKGCLQKTRHFVAGH GGDFLFRSPTHAFPCVPLFPLP P/VTIVRPCPPFS*VLSSSPRNSQ NTIPRSPFLSPGTLSPAGSRDP GNPAPGSNTRLGPTAPVSRLAP VDIGFRSTDCWSLQPQVPVNP SRPAPTNPISRSTPVDPGSNTRL GPTAPVSRLAPV*ALGPLTAG PYSPR/CPVNPGRPAPTNPISR STPVDPGSNTRLGPTAPVSRLA PVDIGFRSTDCWSLQPQVPVNP GSRPAPTNPISRSTPVDPGTRTT PEGL
18627	48995	A	18736	2	280	AMGFIVAPSLGCF/VGSRFVHG EGLRWYAGLQKPSWHPHWV LGPVWGTLYSAMGYGSYLW KELGGFTGVSRASEVAPPEPPP GSSVLCFLHA
18628	48996	A	18737	331	972	TAAAAAMAPPWVPAMGFTLAP SLGCFVGSRFVHGEGLRWYAG LQKPSWHPHWV/LGPVWGTL SAMG*VGVHWPDKPGPLQGE AWPRTEDTGQLALNWAWPPIF FGARQMGGALVNLLLVSGAA GHTTLGGRGAS\QWLAARLLYP \YLGLAWPSTTTTQTTCVWR\DA NHGWHGGRRLARVSARPTMG LQLHQAGAITLVMWWPSRFHD HWAC
18629	48997	A	18738	1	603	
18630	48998	A	18739	1	1782	
18631	48999	A	18740	237	876	CESFCWHHFFWDIFNLFTAPF LVHVDYQGFESVAKKYDVMN DMMSLGIHRVWEGFSCSGKMH PLPGD\QLLDVAGGTGDIARFL NYVQSQHQKQKQRLRAQQN LSWEEIAKEYQNEEDSLGGSRV VVC DINKEMLKVGKQKALAQG YRAAHKSGVILDCLWFPPILHPI AQQICQLYLQNTSGIWPSLPYL CYHLLVQATIPSYLDCCNSL

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18632	49000	A	18741	112	995	VLGSLSQEKRAAETHFGFETVS EEEKGGKVYQVFESVAKKYDV MNDMMSLGIHRVWKDLLLWK MHPLPGTQLLDVAGGTGDIAFR FLNYVSVPASEKTEEAVKGPTK FILGKNLPKSTRMKKIPWAG/TR VVVCDINKEMLKVGKQKALA\ KDTRAGLA WLL*DAEELPFDD DKFDIYTIAFGIRNVTHIDQALQ GSSFGCLKPG\GRFLCLGFSQVE QSP\LSRLYDLYS\SRVIPVLGEV IAGDWKSYQYLVE\SIIRRFPSQE \KFKD\MIEDAGFPQ/V*LTKV*H QGIVAIHSGFKL
18633	49001	A	18742	117	403	
18634	49002	C	18743	62	370	
18635	49003	A	18744	179	527	IQEPPVI**GLHMVHNFTIFVSS YFKFESTFAISFLKVNT/CFFSI* IKSLDEQCVVGKISKHWTGILR EAFTDADNFGIQFPLDLVDKMK AVMKVGICGKNLVKQGNFTMT HSN
18636	49004	A	18745	3	1242	AAPQAGLSPVAIAAAIQLHLHS TQCSSPNTCCLPRRTRATIYYSR WSYHPLGSVP*SP*PFQEAS/AL TLPPACSFYGPLT*FQPKP*GSFP LSQ*MEYTIGLYT*TFHCPGTSR RQIPSSYLNCCKDAFLPLL/SNPP QCRPFTGVLVDVLTGFETNN KYEIKNSFGQRVYFAAEDTDCC TRNCCGPSRPFTLRJIDNMGQE VITLERPLRCSSCCPCCLQEIKS LDEQCVVGKISKYWTGILREAF TDADNFGIQFPLDLVDKMKAV MIGACFLIDRNCSPAMEQSWM ENYFDEMTEIGFRRSVITNFSEL KEHVLTHCKEANKNLDKMLDE WLTRKNSVEKTLNELMEVKTI NEKLTIGKISKYWSGFVNDVFT NADNFGIHVPADLDVTVKAAM IGACFLFAFRLGSELHN
18637	49005	B	18746	277	2415	
18638	49006	A	18747	102	196	

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18639	49007	A	18748	897	1656	SNAGLRHVCRVTSQSGRARSCH VGLHTPWVS*VPWHPWGIRWR GDPQKSQRSRKCCVPGGAP/QK GGDPEPQPSLSVSWNWLSCA GFRAVLPRKPQRKVWLFASSA GTAATEPPR**LAWKADSGGDP WQQPQQSARPHA*TWTWRGD GAPPGRVA/QGRGTAGGASAG VSSGRSRGSPQTGFQALQSCLE ASRRPPVVACNPHPAGALPAAQ AGNRATLMTGSCCLQMPIMYEE AQLRLEELCTKARLNCQWFL
18640	49008	A	18749	756	884	CLQRLLPPGFRRQPSKYRRNRG KSGKG*RPSPVATWQPDYNI
18641	49009	A	18750	1826	2772	RRVLEAMGPSRAAKVLSVCVR SRIGPLICSQRHPATSKTKPQGR PPGEQGTPRDNPRRNNRPARSA TPRGA/PQGAPPRPGEEPAPQT IDKGPPSPSRGHTRRLARSGNQ PPERHTPAAGGKTRYVRQSVL HRARGGEPVRMPRLPRIAEP APDRVECF*VVQSPAREMHSCQ ADSMCPVW*GRIWRSAGSC*SR SEKILVWIPQSLQAHACPSEA HKMPGNPRDGGAGICKSSPGG KGERRKVEGGSTTRAGTSRDS VSKRHANTMGEQAQGEKHPRG TV*KTKRRGPKGQTRGTKAPEE ETSREPPCTGPI
18642	49010	A	18751	196	322	
18643	49011	C	18752	189	650	
18644	49012	A	18753	1	53	
18645	49013	A	18754	31	449	
18646	49014	A	18755	1	389	GMPTSTIASCSQDGRVFIWTC DASSNTWSPKLLHKFNDVVWH VWSITANILAVSGGDNKVTEG QQNEQ*QDRWGLAPHPAPGL PLPGPTNQTGKSPQLQDDYFP RRSYRCSHRLIICLVIGNAL
18647	49015	A	18756	1	1041	
18648	49016	B	18757	15	782	

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18649	49017	A	18758	1	1425	EVKKINNAHTIGCNAVSWAPA VVPGLIDHPSGQKPNYIKRFAS GGCDNLIKWLKEEEDGQWKEE QKLEAHSWVRDVAWAPSIG/ LWPPSTIASCSQDGRVFIWTL** CPQAITVVPNLCLHKFNDVVLG MLNWGPSQPTSLAVSGGDNKN GTNTVCPTGWLQDSNTLVHLV TYKMPRSGLGLFWCOLLSPR KYREGTSPVSLWGEVWFNP DWWGSIRVYHPSPSGSYRTHKP PLNNLSCDTSIIRELLKGKKFLL FVSVPVPSTVLGRKKVSVINT VDTSHEDMIHDAQMDYYGTRL ATCSSDRSVKIFDVRNGGQILIA DLRGWPRASRYQQGHQDLFIL RSDLPSQVFIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKSSSTEYVTKVFALDVAA RHRVQFAMPESDAVAMLKQLS
18650	49018	B	18759	323	1583	
18651	49019	A	18760	3	419	PSASSSPARIPAAATRQGRSPRIP PAPSNEAPRLPADREFLEQQPPR FPKPTIQASGADRAVDCGILKL QKSIPARLARPRWPRRPSKRFW SAAGSVEEQPKPPRRRAKSPEQ SPQLSVLPLVTITPQASGASFEL MKN
18652	49020	A	18761	2	385	WGRGGGRGLLYGRRHFVRRRR RGGRSPGESPALTVT*GAVPSA AFRESAQPGPRSSEAHISTSPKR TDGGRDS*PGLPRSSLTPSLPRP ASFSTSPGRVSAPHRLPRHS/AG PGLSGSS*PQPYSIPT
18653	49021	A	18762	242	422	

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18654	49022	A	18763	2	992	AREKKQKTRRQNKNI PRQINKT QRICC*QSCLTMTQDFFWPLCQ GHSRGAPCLLVPPGLSLTCAPA QPAARPGVSQLTCAIACHTIQW FPSSCPPSEKNGDTLTVKTPSA SSSPARIPAATRQGRSPRIPPAP SNEASPAPGRPRVPGAAIPPRFP KPTIQASGADRAVDCGILKLQK S\PARLARPRWPRRPSKRFWSA AGSVEEQPKPPKAP/PAKSPEQS PQLSVLPLATITPQAYGASFEK MKNLKTRRGGRSRWHFPFNVIP QAPSLKWGFQTS DASSAEVFH VDRSLASHKMGPGRRPRSPLW APPFCEAAAARRQEPGVCIMVE
18655	49023	A	18764	292	348	
18656	49024	A	18765	2	466	LITVVKLLDTMVD TFLQKLVA AGSYQRFTDCYKCFYQLQPAM TQRIYDKFIAQLQTSIREEISDIK EEGNLEAVLNALDKIVEEGKVR KEPA/WQRDTLRRHVQKQEA NQQLADAVLAGRRQVEELQLQ VQAQQAWQALHREQRELVA VLREPE
18657	49025	A	18766	2	511	FNMAEASSANLGSGCEEKRHE GSSSESVP PGTTISR VKLLDTMV DTFLQKLVAAGS/YSTPSLGRK CWS\RLPSGGQSVKQAFSWAAC RLPQGRKEEISDIKEEGNLEAVL NALDKIVEEGKVRKEPAWRPS GIPEKDLH SVMAPYFLQQRDTL RCHVQKQEAENQQLADA
18658	49026	A	18767	224	748	NRPSVGRRAGYHRGGSYQRFT DCYKCFYQLQPA\MTQRIYD\K FIAQLQTSIREEILFDNQKQEGE PRKLSW\NALG*KFVGTKGKVR KEPAWRPSGIPEKDLH SVMAP YFLQQRDTLRRHVQKQEAENQ QLADAVLAGRK\QVEELQLQV QAQQAWQALHREQRELVA VLREPE
18659	49027	A	18768	1	421	

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18660	49028	A	18769	666	1445	AGITTIEAAKRTIQVLHLQAND AQERA\ERSQREFREERRAREPG LRLK*SFLNRRIQ\VEEEL\DRA QERLGHLPCKKL*RS*KKLADE SERRY*RLFENRALKRLKEKIG TSREIPTQKKLKHICRKEAD\RK YEEVARKLGDHLKEDLEPTEVE RA\ELAESRC*EIDEQIRLIDQNL QCLSAAEDKYSQKEDKWEEE MKILTNKLREAETRAEFAERS VAKLKKTTIDDEDKLCCTKEEH LCTQRM LDQTLLDLNEM
18661	49029	A	18770	2	158	SAAPGAVPPPEADSTSAGMSRR PCSCALRPPRCSCSASPSAVTAA GRPRPSDSCKEESSTLSVKMKC DFNCNHVHSGCLKVKPDDIGRL \VSYNPA\YLEGSCKDCIKDYER LSCIGSPIVSPRIVQLETESKRLH NKENQHVQQTNLSTNEIEALET SRLYEDSGYSSFSLQSGLSEHEE GSLLEENFGDSLQSCLLQIQSPD QYPNKNLLPVLHFEKVVCSTLK KNAKRNPKV DREM\KKEIARG NFR LQNIIGRKMGLECVDILSEL FRRGLRHVLATILAQLSDMDLI NVSKVSTTWKKILEDDKGAFQ LYSKAIQRTENNNKFSPHAST REYVMFRTPLASVQKSAAQTSL KKDAQTKLSNQGDQKGSTYSR HNEFSEVAKTLKKNESLKACIR CNSPAKEYDCYLQRATCKREGC GFDYCTKCLCNYYHTTKDCSDG KLLKASCK\IGPLPGTKKSKKNL *RLHVGWHEPAPLQLRPTATPL LLQRQPQRSDSRRAPSTLG

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18662	49030	A	18771	4	1276	RKAASSYVSRMALPIIVKWGG QEYSVTTLSDDTVLCLKQFLK TLTGVLPERQKLLGLKVKGKP AENDVKLGALKLPNTKIMMM GTREESLEDVLGPPPDNDVVN DFDIEDE/R*FEVENREENLLKIS RRVKEYKVEILNPPREGKLLV LDVDYTLFDHRSCAETGVLM RPYLHEFLTSAYEDYDIVWSA TNMKWIEAKMKVKPLGVIWG KFSEFYSKNTIMFDDIGRNL MNPQNGLKIRPFMKAHLNRDK DKELLKLTQYLKEIAKLDDFLD LNHKYWERPRVRCHIFHGKED RYDPCPMGACCKTVCTTNLA LPALPLGSMKNGQPCRNIGQK GYALTVINSGPQQGLFVRILLG LFIRDFFPAGCGARPFWNEGLM AYFQRRTLVGVMVLSSSKSFK
18663	49031	C	18772	113	257	
18664	49032	A	18773	143	330	HHGPVPFPRGLIS*HSLHPCPT PGGKNVFFCFEYFLKLAGIETT NCSADKRGKKVCCLIPR
18665	49033	A	18774	3	432	
18666	49034	C	18775	112	192	
18667	49035	A	18776	3	1015	SSRPVRPRPAARLSAMSSTQFN KGPSYGL\SAQ\VKNRLL\SKYD PQKE\AELRTW\IEGLTGLSIGPD FQKG\LKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNPVDLFEAN DLFESGNMT\QVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCIVIGL QMGT\NKCASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQVGM\TA\PGTRRHI YEYQAGNPTSCDNFSM\SLQ\M GYTQGAQTQSGQVF\GPGRPDI *TPSTCPQGT\ADGAPSGTGDC PDPGEVPEYPPYYQEEAGY
18668	49036	A	18777	2	110	
18669	49037	A	18778	74	289	

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18670	49038	A	18779	138	2039	GAAMAAAGRLPSSWALFSPLL AGVALLGVGPVPARALHNVTA ELFGAEAWGTAAFGDLNSDK QTDLFV/LAGKK*LNRLFGRPE CTRILNPK*RYLSRITVH**QV*S LGAYDGDSQMDVLLTYLPKNY AKMN*ELLSSGDKIKH*ILTI*P YSIGL/LQDEPLIMDFNGDLIPDI FGITNESNQPIQLGGD/CYHGI QH*PLQVKCEFHI/PHAFIDLTE DFTADLFGATLNGTTSTFQFEI WENLDGNFSVSTILEKPQNM VVGQSAFADFDDGDMGSFTC QGCGR*K/CAKRVPSYLVRS GMKQWVPVLQDFSNGKTLWGFVP FVDEQQPTEIPIPTLHIGDYNM DGYPDALVILKNTSGSNQQAFL LENVPCNNASCEEARRMFKVY WGADRPKSN/SKGAMVATFFDI YEDGILDIVVLSKGYTKNDFAI HTLKNNFEADAYFVKVIVLSGL SISNDCPRKITPFGVNQPGTLYH VYNCRCKWVSEKWIRWPNSAQ SAHLALQLPYNVLGFRVGSANF LDHL\SLGIPRPSWRKIFYGKQE WTAIIPNSQL\IPIPHNVPPKL GVPNCILYTKLILFWLTAIALIR CLCFQSLAINWHFTLGREKKAG WIEKRTRKAHRFPFWAMMW
18671	49039	A	18780	1	966	
18672	49040	A	18781	1	1035	RPPFPVPGVQKCLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRSPVASGREM VVLSPAEVT\ILLDI\EGTTTP IAFVKG/DILFPYIERKMLK\EYL QTHW\EEEEFQ\QDVSLFEGNK A\EEDAHLDG\AVPIPGKHLGIG V\DD\LQQM\QAVVDNVCWQM SLDRKTTALK\QLQGH\MWRAA FTAGRMK\AEFFADVPA\VR\K WREAG\MKVYIYSSGSVEAQKL LFGHSTEGDILELVDGHFDTKI GHKRRRVKVTRK\IADSIGCST NKHVFVWTDVTSRRASAGLRE AGCCTLAVV\VRPG\NAGINR*L RKTYYSLITSFQWNYLPSST

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18673	49041	A	18782	1	528	DNELLDYEDDEVETAAGGSMS/ EAPAKKDVKGSYFSIHSSGFRD FLLKPELLRAIVDCGFEPSEV QHECIPQAILGMDFLCQAKSGM GKTAVFVLATLQQLPVTGQV SVLVMCHTRELAFQTR*KTRPF WNVTVCPSGEDTRVGKETLL PPPLTATPWLPSPFASPPLLNPH
18674	49042	A	18783	207	309	
18675	49043	A	18784	85	348	PPHSALLPFPTPFLPPSQLEIFVD DETKLTLHGLQQYYVKLKDNE KNRKLFDLLDVLEFNQVS*TSS RGMSIGALQL*QKPGY*VHFY
18676	49044	A	18785	1	930	CCCRHTRSPCLVMAENDVDNE LLDYEDDEVETAAGGDGAEP AKKDVKGSYVSIHSSGFRDFLL KPELLRAIVDCGFEPSEVQHE CIPQAILGMDVLCQAKSGSGER QAVFVLATLQHLEPVTGQGV CAG*CCHTRELAFQISKEYERFS KYPNVKVAFFAGGLSIKKDE EVLKKNCPAYPSVGTGRILAL ARNKSLNLKHIKHFILDECCKM LAEQLDMRRDVQE/IFFRMTPH EKQVMMFSAITLSKEIRPVCRK FMQDVNTLLPSLPPLPARCLLP LALFLRLPCHSSAKKAACAQLG
18677	49045	A	18786	96	1618	LFTPCFHLFCENPSRSPFPSSPAG PVMAENDVDNE\LLDYER*MR WETAAGGDGAEPAAK\KDVKG SYVS/LSHSSGFRDFLLKPELLR A\VD\CGFEHPSEVQHECIPQAI LG\MDVLCQGKSG\MGKTAVF VLATLQQLPVTGQVSVLVMC HTRELAFQISKEYERFSKYMPN VKVAVFFAGGLSIKKDEEVLK/R RNCPHI\VGITPGRILS/LWVRN KSLNLKHIKHFILDECCKMLEQ LDMRRDVQE\IFFRMTPEKQV MMFQCYLGAKAIRPVCRKFM QDPMEIFR/VDDETKTLHGLQ Q\YYVKLKDNEKNRKLFDLL DVLEFNQVVIFVKSQVRCIAL APAY*WEQNFPAA\IA\HRGDAP RKERLS\R*SSSFKDFTNEILIG YPTLFGRRHGTSEAGETIAF*FM NMP*GILKTLPCRIVGPEQGRF GHPRGLA\ITFVSDEE*LPRSCD DVQGSALRVKFSELPDEIGHLP PTLEQDTGRRLAHFGNVDRFL
18678	49046	A	18787	1	363	

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18679	49047	A	18788	78	714	GTTEGKRQEAVGYLCVLPLTTL PLVTRLPPQVADTM LPPMALPS VSWMLLSCLILLCQVQGEETQ KELSPRISCPKGSKAYGSPCYA LFLSPKSWNDADLAC\QKRPSE KLVSVLGAEGSFASLLA\RSIS NSYSYIWIGL\HDPKKG\SEPDG DG*EWSSTDVMNYFAWEKNPS TILNPGHCGSLSRSTGFLKWKD YNCDAK\LPYVCKFKD
18680	49048	A	18789	52	186	QSEVHHGIISYTTGQGENLSEPI WKSWSQRSQDL*QENHPEIYSLT
18681	49049	A	18790	666	2732	KQLIKMCYFILLLLISSHIGKD KAIDKNGILVQYWQE*KLVEPF *KAIWPPCMETLNVDTFPQPQV CLGIYPNE*KLSK/CFKP*APKV YFHGCL*Y*NHWEPTETIPPVK GWIW*ILF
18682	49050	A	18791	112	340	
18683	49051	A	18792	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSH\SPMAGGLAG MGGIQNEKETMQSLRDRLASY LDRVRGLETENWKLESKIQEH
18684	49052	A	18793	1	994	APSYRA/RLVRSVASVYAGPGS SGSRISMSRSTSFQGGGLGSRSM AA/GMAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLEMG NWKLESKIWEHLEKKGPQVRD WGHYFKTIEEDLTQIFTSTVDN TCILQIDNAHLAADDFRVKYE TEPATCQSVENDIHGLHKVIDD TSVTQLQLETEIEALKEALLFL\ KKNHEEES/WRHTVQALEIDL WMKNLEASLENSLK/EGVEAC YTLQMEQLNGILLHLESELAQT WAEGQGQAQEQYQALPNIKVKL EAEIATYRRLLEDGEDFNFGDA LDSSNSTQTIQKTPTC/RTVDGK VVSETNDTKVL
18685	49053	A	18794	3	377	
18686	49054	B	18795	54	136	
18687	49055	A	18796	149	419	

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18688	49056	A	18797	83	1402	AEKAGGKKGEAPSYRA/RLVRS VASVYAGPGSSGSRISMSRSTSF QGGLGSRSMAG/GMAGGLAG MGGIQNEKETMQSLNDRASY LDRVRSLEMGNWKLESKIWEH LEKKGPQVRDWGHYFKTIEED LTQIFTSTVDNTCILQIDNAHL AADD FRVKYETEPATCQSVEN DIHGLHKVIDDTSVTQLQLETEI EAL\KEALLFL\KKNHGEEIKGL SRRQIASSGVDPWRVDAPKSSG PSPKIMGRHPGPKYDEL\ARKR TREE\AKYSSQ\QIEEST/TQLV TNTSL/GGLELAETNLHRS*TY KRSLEDSTLDSIEKS*KAQAW KKQPLKGSWKAPLRPLPDWSK LQTGILACTFESRAGNKTRARG TSAPGPQEL*GPLLKHKQVKAG GLRSPTLPARLLEDAEAL*SLV DPLDSKQLPCNTIQKTTTPPG*V
18689	49057	C	18798	140	283	
18690	49058	A	18799	2	783	VVQFARREKPSSSKVSQRHPCT EAVREVLHG\NQRKSPQRSWET VELQISLKNYDPQEGQSAFSGT RQALSPLPRPKFSCVCPGGTQQ H\CD E A\KARGISPPHGTFEGA* KNLNKE*KNWSKKAGPRKY*L RFFGPQKSLDQSKIPNPSPGPGF K*RAGK\FPPWFTHMENMGG PKLDEGEVPIQVFQMKERCLC L\AVAV\GHV\KMTD\DELVYNI HLGCQLSWVSLLKEKNW\QN\A RALYIKSTHGQSPKRLIFKAHFE
18691	49059	C	18800	239	555	

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18692	49060	A	18801	401	3014	TRASSTMSKSFQQSSLRDSQG HGRDLSAAGIGLLAAATQSLSM PASLGRMNQGTARLASLMNLG MSSLLNQGAHSALSSASTSSH NSQSIFNIGSRGPLPLSSQHRGD ADQASNMLASFGLSARDSDELS RYPSDTITPENLRPILLQLKRRR TEEGPTLSYGRDGRSATREPPY RVPRDDWEEKRHFRRDSFDDR GPSLNPVLDYDHGSRSEQESGY DRMDYEDDLRLDGERCRDDSF FGETSHNYHKFDSEYERMGRG PGPLQERSLFEKKRGAPPSSNIE DFHGLLPKGYPHLCSICDLPVH SNKEWSQHNGASHSRRCQLLL EIYPEWNPNDNTGHTMGDPFM LQQSTNPAPGILGPPPSFHLGG PAVGPRGNLGAGNGNLQGPRH MQKGRVETSRVVHIMGFSTE GKTLRYQLLQLEPFGVHFKFI *FLNKNLLRAFIEMATTE\DCFK AAVDYTTTPA\LVFGKPVRV HLSQKYKRIKKPEGKPDQKFDQ KQELGRVIHLSNLP HSGYSDSA VLKLAEPYGKIKNYILMRMKS QAFIEMETREDAMAMVDHCL KKALWFQGRVCVKVDLSEKYK KLVLRIPNRGIDLLKKDKSRKR SYSPDGKESPSDKSKTDGSQE AERSTEGKEQEEKSGEDGEKD TKDDQTEQEPNMLLESEDELLV DEEEAAALL\ESGQFSGETSTDL
18693	49061	A	18802	3	1013	NCRAAWRAKLEGCLSLRRNAC QCFLIWTQTPDREQSYSLDQLP REVLNQEEKSISIWDIYHLEM GNGLSDQTSILSNLPSFQSFHIV \LGLDCAWKRQLSYTRLQFQLN L*NT\VPYPKGFNTEKI*/RVTLG NSKT\VTFFH\WDVGGQEKLRP LWKSYTRCTDGIVFVVDSDVDV ERMEEAKTELHKITRISANRGV PVLIVAN\KQDLRNSLSLSIEIK LLAMGELSSSTPWHLQPTCAIIG DGLKEGLEKL\HDM\IKRRKML RPTRKRKDEYQFPNIICVG VGF LWSDFDKNRRVSTAGVCLSAAPP WMLLKLCFVEQFRCPTRVALW KMSKCSAS
18694	49062	A	18803	3	1103	
18695	49063	B	18804	34	734	
18696	49064	A	18805	1	1741	

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18697	49065	A	18806	6460	6635	RTSTERSHLKTRYQRTSCSSNR* LNSSSSKTSFRCSLTTSFWRHT IFNMLLINRRL
18698	49066	A	18807	5567	5853	IGILEA*LLRNLPNDSIKALVDA *YKSLLSAVERCSFMVLFGEPM NKPLAILRQSGVNRPPVISIM ALIGPLVTPSASTYSYGVNADLS SATK
18699	49067	A	18808	664	992	SCADIHGYHRGNSSNNDNLIP KQTNRDCLNNGHQNHSCNG/D *PQPQR**QLTLQNLMQHQ*KQ QYPLPQHQQQE*RTR
18700	49068	A	18809	3	1698	
18701	49069	B	18810	227	883	
18702	49070	A	18811	180	373	PDTLRSLPMLLEQLFCRTFGLL SP**RDTSLHLGHKTEQHT*LV MGSWFYLLASQQPRCCYAC
18703	49071	A	18812	495	701	
18704	49072	A	18813	138	418	AYRLLLCLVYSEGFYMHLEFQ NRLYHQLVF*GRLWHFWKSIK RFSIY*FFWYRW*YICKLNKGR LQDVIGVINT*CHFLS*GLH*TIP GIHRL
18705	49073	C	18814	62	175	
18706	49074	A	18815	644	828	
18707	49075	A	18816	1	1107	
18708	49076	B	18817	84	342	
18709	49077	A	18818	3	1399	
18710	49078	B	18819	1	1377	
18711	49079	A	18820	1	546	
18712	49080	A	18821	855	1099	VTLYSEYQHPSVREYGLYLTSH RIEPLCVHRTL*PVLLSMQPSV LEYEQQGYEAEY*LQEECHH QRTSSL*DLLKQLLQ
18713	49081	A	18822	1	1680	
18714	49082	A	18823	1	3951	
18715	49083	A	18824	2	6446	
18716	49084	A	18825	2497	21785	SSPYPTKQSSTNNFVFDGNELF NSRDRLSQRFLYILQSSVHLINR Q/LEGYVQHHLNLAIEI*HHGLG KDAYIAAMYNNDDGATFQMEI GGIHTNAALAAGDKLQCIWRY LDVNGNAPAAENEFEVVSYESG FGTSNFSVKCKGMLPGKFIGCD AFYGKYLQTDGPIKQVDSVKW FTNLTVSGSGRKQLGQRKYPQ VVMGMGMTSGFDDGYNLTP RQVKMAYGLGYRDWWTTYIG MSHYWKGLTAFQDKETGELI
18717	49085	A	18826	31	479	

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18718	49086	A	18827	255	1002	SQFSLSQVLVDSAEEGSLAAAA ELAAQKREQRLRKFREHLHMR NEARKLHHQEVVEEDKRLKLP ANWEAKKARLEWELKEEEKK KECAARGEDYEKVKLLEISAED AERWERKKKRKNPDLGFSDY AAAQLRQYHPV*PKQIKPDME TY\ERLREKHGVEEFFPTSNSLLH G\THVAFHRGKFDRVVLRSCKN QFEKRD/KF*ARRRPYNDDADI D\YINERN\AQFNKKAERFY\GK YTAEIKQNLERGTA V
18719	49087	C	18828	91	225	
18720	49088	A	18829	3	212	
18721	49089	A	18830	88	239	
18722	49090	A	18831	865	1898	QQQQQQQHRRYPRRRSPRAWC SHPRSPLLFLPSLAPWPDQLTEE QIAEFKEAFSLFDKDG\DGTTT KEL\GTVMRSLGQEPNKKLE\A QDMINESGMLMG\NGHTLTFPR IF*LMMARKMKD TDSEEGN/LR EAFRVFAKDNGYISAAELR\H VMTNLGEKTTRF/KKVDEMIRE A\DIDGDGQVNYEEFVQMMTG KMEDLTFQLPFSPPLEESNWNL LLTFLQKKEKKKKVHLFHSCFL YSKTECQKYLLVHTHQNLHVL VGGPCPLKDQATHQFYNTCT NLNDNGLLKRSILLMINTLFG ASFFHACSFDDWSTSQGLWYL KLENGKNQISKPIPNGLVHFV
18723	49091	A	18832	1	330	WVVLKNCVGVGLLIAT*MWFI SNKYL VQRQSRDYDVEWGYAF DVHLNAFYPLLVLHFIQLFFIN PLPFLKNTVILLYPFAPLILLYGL SLALGWNFTHTLCSFYKYRVK
18724	49092	A	18833	1	534	VPSNSVNSLVQNGVLSNRDA ARH/TAGAKRYKYLRLFRFRQ MDFEFAAWQMLYLFTSPQRVY RNFHYRKQTKDQWARDPAFL VLLSIWLCVSTIGFGVLDMGF FETIKLLLWVVLIDCVGVGLLIA TLM/WHCHFVKKQVILLYPFAP LILLYGLSLALGWNFTHTLCSF YKYRVK
18725	49093	C	18834	295	570	

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18726	49094	A	18835	418	1567	SFTLKNCVLQRVSSILPSNTAEV DFPSWTTQSDWQQTRAQVLLQ ARARAALRLVLIILRHDGASPP MRTRLSPATLATGSGASEAPV SGDRKPAATTSGGPRRKMLPST SVNSLVQGNVLSNRDAARHT AGAKRYKYLRRLFRFRQMDFE FAAWQ\MLYLL\TSP*RVYRNF H\YRKQTKDQWAR\DDPAFLGF PFKYSGFCVSTIGFG\FVLDMG\ FFETIKLLLWVGLID\CVGVGLL IATL\MWFISNKYL\VKRQS\RD YDVEWGYAFDVHLNAFYPLL VILHFIQLFFINHVNLTDTF\IGY LVGNTLAWL\VAVGYYILR*LSL GYSVGLLFFSSIAHF*KNTVILL YPFA/PL*FLPPTGFPLALGWNF THTLCSFYKYRVK
18727	49095	A	18836	1	888	MPGLLLLGRSQNLKQQAELCG LGLALVISAVKPLSKKFMLPNP TSMKPESDGIYSINLKRTWEKL LLAGHAIVVIENSADVSVISSRN TGQKAMLKFAAATGATPIAGH FTPGTF/TNQIQAAYWEPRLLV VSDPRADHQSLTEASCVNPPAI ALCNTDSPLCH/VDIAITCANNKG APSVGQMW*MLAWEVLHMRG TISCN/SPWEVMSNLYFYRDPEE TEKEEQAAAEKAVTKKEFQ GK WTVSAPEFTVTQPEVADWSEG MQICNLGKAQQGQLSSDAEDD FWSLESLDGYSHVTVFR
18728	49096	A	18837	74	848	REIFINVRSLLMACFVKEEDVL KFLAARNP/HVGGTNLDFQME QYIYIRKSDGIYIIRLKRTWEKL LLAARAIVAIENPADVSVISSRN TGQRAVLKFAAATGATPIAGRF TPGTFNTNQIQAAREPRLLVVT DPRADHQPLTEASYVNLPTIAL CNTDSPLRYVDIAIPCNNKG AH SVGLMWWMLAREVLRMRGTI SREHPWEVMPDLYFYRDPEEIE KEEQAAAEKAVTKKEEFQGEWT APAPEFTATQPEVADWSEG
18729	49097	A	18838	72	528	DEACGVCCYSPGASPMPP*GRT RKEGRTAGKVRPKERPKTPVN\ KSGGQGPKRKNWSKRQKFRDK L\NNLVLFDKA\TYDKLCKEVP N\YKLITPSLWSPERL\KIRGSLA KGKPFQEAP*VKGLI/RNLVSKH RAPSNFTPGNYQGWEDAPSL

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18730	49098	B	18839	6	125	
18731	49099	B	18840	249	291	
18732	49100	A	18841	128	669	RPGHAQTLGSPSLALGMAGQF RSYVWDPLLILSQIVLMQTVYY GSLGLWLAIVVDGLLRISPSLD QMFDAEILGFS/TPFQGRLSMM SFILNALTALGFAVISSGEEKQ CLDFTVTVHFFHLLGLLGSNSS PFSPSGG*TLVGLGPKPVVALH SLAVIGEYLCMRTELKEIPLNSA
18733	49101	A	18842	1	818	MAELTVMRFHTEPQGSEGLRLP RISGSKPKQMHVTWLEPLENGI CNGNTGNAQLLIPPGVIFHKYP SHYVTAMLKSLKWPLQTEITS SSGQALWGLVGGGSPHRQAST EKL FSEKVPKTAENFPCSELSCF HGENGFGL*GVPCFHRLFP RVY AVRGGDFHTAINGTGGKSHPM GKKFEG*ETSSLKHTG\PGDLVP WQNAGPNTNGSPVFLTSTCTAQ ELSGLDGKPCGV LAKVKE\GM NIVEAMER\FGSR\NGKTSKKITI A\DCGTTPNKV
18734	49102	A	18843	4	454	
18735	49103	A	18844	1	978	MRWACDFTKLLSSTWTLIQYPE NAMIIARWALLADCPEKTKAL RTTEDGIVDAANFEQFLQERIK VNGKVGNLGGGVVTIEKSKSKI TVTSKG\PFNSM*I*GSASSFVEK KRLLEF*KLLSSTWTLIQYPENA MIIARWALLADCPEKTKALRTT EDGIVDAANFEQFLQERIKVNG KVGNLGGGVVTIEKSKSKITVT SKGHFQFYVNLRI SF LICGKEKA VGILEEIVLNLLIIFSSIDILTVKG TCSGCERGFLEIYDEVEDSSYD NHLKDDDPKREGPGA EQALST PPCCPLEKRPINDQTLIISWSGST NVIEEAGRHSVVQEGWGALGV LRTTLPSLPQITGGAGFVGSHLT DKLMMDGHEVTVDNFFTGR KRNVEHWIGHENFELINH DVVE PLYIEGRAENQLSHTVPGPVDL SDRIVNGYFLSL

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18736	49104	A	18845	167	1440	RDIWLSASAAAMVPVRKLV/AE GGQKTKQVLRFTLGCTHPEDG IIDAANFEQFLQERIKVNGKVG NLGGGVVTIEKSKSKITVTSKG\ PFNSM*1*GSASSFVEKKRLLF *KAENLSSKNWNKTRMPTFTTL TQVAPNPITGYTSKGGKISTLKR YLAFLRCCHGAREKACGEGG QKTKQVLRFTLGCTHPEDGIID AANFEQFLQERIKVNGKVGNL GGGVVTIEKSKSKITVTSKGHF QFYVNLRIISFLICGKEKAVGILE EIVLNLLIIFSSIDILTVKGTCSSC ERGGFLEICDEVEDSSYDNHLK DEDPKREECRKRDAYAPLKDQ GNAEKRRHNVRKSWPLLSAKL LKIRTNLTGTTEEELHANHIQQ VPIKCLSYKLTERKNGTQKHLH YALILHVKCDRRETSKFTKFYG THPLTALFVPRAWGPPSALPE SELAVFLVAYEGNTLLHLFLSG AEQRGNSSLKERAGRARFSHOR KLNEQTIPPDNLTKSSVDLQSSF SAVHPNSQPTVWVDMPAHPLS QYLVPAKRTVLPWIWYGNPCPD VIFGSLSDSKLSEGKEFALPLKF
18737	49105	C	18846	713	831	
18738	49106	A	18847	2	303	
18739	49107	A	18848	97	233	RTVTCYHRNSRACHPQQITSCP *HRALPCLPLWSPKCPSRWPWF G
18740	49108	A	18849	229	359	MKWVYCSVTGMGKGQHRMP\ SKG*GWVQRYNRDGIPSPRVLE LF

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18741	49109	A	18850	1	1185	MSTIDDPRLQGRRMCLMLRGT PEQKALVIGGEACMWGEYVDN TNLVPRLWLCPPSTQDLANEG REMTILHRHIPDRGKGVMRSCS FRTPRPFTLACGPEKSLMDPQS QSNSEGASSLVVKLADTDRE ALRRMQQMAGHLGAFHPAPLP LGACGAYTTAILQHQAALLAA AQGPGLGPVAAVAAQMQHVA AFSLVAAPLLPAAAAANSPPGSG PCTLPGLPAPIGVNGFGPLTPQT NGQPAAPTRSTITGSPLI/SGWSQ SRPILRIMKYAEQRIPTLNEYCV VCDEQHVFQNGSMLKIQPDTH QVWREDIPVNYMKELELVTKA GFRALLSAPWYLNRSYGPDW KDFYIVEPLSFEGTPEQKALVIG GEACMWGEYVDNTNLVPRLW AHRIQL
18742	49110	A	18851	231	416	
18743	49111	B	18852	184	594	

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18744	49112	A	18853	247	2296	PVYLSIFMSCVGENGGSHIENW HSILRNGLVNASYTKLQDIKGQ FWNDDDSEGDNESEEFLYGVQ GSCAADLYRHPQLDADIEAVK EIYSENSVSIREYGTIDVDIAL HINISFLADEEVSTAWKVL RTE PIVLRRLRFF\LSQYLDGPDPS\IE VFQPSNKEGFGGLGLQLKKILGM FTSQQWKHL\SNDFLKTQQEK R HSWFKIASGITIKKFRAG\LQHSF SPIPKS\PSFPYS*Q\DSMAGKGK LGVPEL RVGR LMNRSISCTMK NPKVEVFGYPPSPQAGLLCPQH VGLPPPARTSPLVSGHCKNIPTL EYGFLVQIMKYAEQIRIPTLNEY CVVCDEQHVFQNGSMLKPAVC TRELCVFSFYTLGIVMSGAAEE VATGAEVVDLLVAMCRAALES PRKSIIFEPYPSVVDPTDPKTLAF NPKKKKNYE\RLQKALDSVMST REMTQGSYLEIKKQMDK VWIP L\AHPLLQWISSNRSHIVKLPL SRQLKFMHTSHQFLLLSSPPAK EARFRTAKKLYGSTFAFHGSHI ENW\HSIL/RGNGLVQWHSYTK LQLHGAAYGKGIYLSPISSISFG YSGMGKGQHRMP SKDEL VQR YNRMNTIPQTRSIQSRFLQSRN LNCIALC\EVITSKDLQK\HGEH LGCCPVFRPMSCTRFLPL*YED G\QVGDAQHYIPHPQRVHERE
18745	49113	C	18854	122	486	
18746	49114	A	18855	1	535	KNAAGNFISPT/ERLSPNAWKTI TDIVLNGTAFVTFLSITTIYAET GSGFVVPSASAKAGVEAMSKS LAAEWGKYGMRFNVIQPGPIK TKGAFSRLDPTGTFEKEMIGRIP CGRLGTVEELANLAAFLCSDY ASWINGAVIKFDGGEEVLISGEF NDLRKVTKEQWDTIEELIRKTK
18747	49115	A	18856	3	356	
18748	49116	A	18857	1	1581	

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18749	49117	A	18858	2	1242	RRLGSPRPPIRRRPRQRFPREL CSFCPAPCGPTACGGFRPEFWRI NMKLPAKVFFTLGSRLP CGLAP RRFFSYGTKILYQNTALQSKFF SPLQKAMLPPNSFQKGVAFITG GGTGLGK\GMTTLLSSLGAQCV IASRK\MDVLKATAEQISFSNW EIKVHAIQCDVRDPMVQNTV SELIKVAGHPNIVINNAAGNFIS PTERLSP*CWKNQ\ITNIV*NGT AFVTLEMGKHLIKAQKGAFL\ SITTIYA\ETGSGFCRYPASAAQ SRVWEAHGASLLQLEWG*NM GLRIPVDSNQGPIKTK\GALYPS GPPTGTFGEKKMIGQKFPCGSP WGLVEELRKSLPAFLCSDYA\S WINGAVIKFD\GGEEVLI\SGDF\ NDLRKVT\KEQWDTIEELIRKT KRFLRPLWPSSWLQKRE
18750	49118	A	18859	8	432	NSKLPPVVTSSQMRMY/DPQT DQHMKI\FPEQLPLDEFLQKTDP KDPANYILHAVLVHSGDNHGG HYVVYLNPKGDGKWCKFDDD VVSRICTKEEAIEHNYGGHDDD LSVRHCTNAYMLVYIRESKLSE VLQAVTDHDIPQQL
18751	49119	A	18860	1	211	
18752	49120	A	18861	1	242	
18753	49121	A	18862	3	733	LVHSRDNHGRHYVVYLNPKGD GKWCKFDDDDVVS/QLVERL*EE KRINAQKVDR\RQEVHLYMQA QVASEDQFCGHQGNMYDEE KVKYTVFKVLKNSSLAEFVQN LSQIMEFPQDQIQLWPMQARSN GTKRPAMLDNEADGNKAMIEV SDNENSWTIFLETVDLELAASG VTLPKFDKAHDVMFFLKMYDP KMRS�NYCGHIYTPISCEIRDLL PVMCNRAGFIQDTSILLYEEVK LNLTERIQD
18754	49122	A	18863	261	659	KHLFYLFIT*EITLYPDKHGCVR DLLEECKKAVELGEKASGKLR LLEIVSYKIIGVHQEDELLECLS PATSRTRFRIEIPDLLEECKKA VELGEKASGKLRLLLEIVSYKIIG VHQEDELLECLSPATSRTRF
18755	49123	A	18864	107	407	CVFFADTSWRSEATFQFTVERF SRLSESVLSPPCFVRNLPWKIM VMPRFYPDRPHQK\SVGFFLQR NAESDSTEDSLNDATTNPHIVA FHYWKPNLNSLV

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18756	49124	A	18865	2	3698	YVRVSLPPPPPAAGRPGAADVAD DAREEEEEAAPPPPPPPPRLAA ARPPGSQPRPPAAGEAQAAAD MNHQQQQQQKAGEQQLSEPE DMEMEAGDTPPRITQNPVIN GNVALSDGHNTAEEDMEDDTS WRSEATFQFTVERFSRLSESVLS PPCFVRNLPWKIMVMPRFYPDR PHQK\SVGFFLQ\CNAESDSTSW SCHAQAVLKIINYRDEKSFSSR RISHLFFHKENDWGFSNFMAW SEVTDPEKGFIDDD
18757	49125	A	18866	16	450	
18758	49126	A	18867	3	26	QSGHSMDMRVPAQLLGLLLLR LRGARCDIQMTQSPSSLSASVG DRVITICRASLDISRWLAWFQL KPG\EVPKLLIYAASLTQSGVPS RFSGSGSGTDFTLTISLQSEDIA MYYCQQYNNW/SSAPYTFGP\G TKVEIKTKLWAA\PSVLHLPGPS DEAVENLGTAFLCALLEKTSN PQSRPKSTSGRVDNALPNGGK LPQGECSQKQD*TAWT
18759	49127	A	18868	3	694	
18760	49128	A	18869	47	1712	FPTKMAAVGRVGSFGSSPPGLS STYTGGPLGNEIASGNNGAAAG DDEDGQNLWSCILSEVSTRSRIS KLPAG*NVLLLGEDGAGKTSLI RKIQGIEEYKKGRGLELYL\N VHE*MTGNDQTRCNVWILDG DLYHKGLLKFSLDAVSLKDTL VMLVVDMSKPWTALDSLQKW ASVVREHVDKLKIPPEEMKQM EQKLIREFQEYVERGEDFPASP QRRNTASQEDKDDSVVLPLGA DTLTHNLGIPVLVVCTKCDNIS VLEKEHDYRDEHFDFFQSHIRK FCLRYGAALIYTSVKENKNIDL VYKYIVQKLYGFYKIPAVVVE KDAVFIPAGWDNDKKIG\ILHE NFQTFKRQEDNFWKDITKPPV RKFFVHEKEIMAEDD\QVFLMKV \QSLLSKSKPP/TTEAGRPVDA\S PKESQGGSPNTKIESVSS*CCQ ACHPIPCWGQKKIDPNMESWE LTSGRAFLGKFSFNSFV*VKRL GSPRRPLVVS GG*PCRVGLGGG \SSG\LPP\STKKVQAYKPVLDV\ HAELDRINTR*PV\TVS\PTTPTS\

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18761	49129	A	18870	3	885	LVCLVRELLGPRRFFLKVFLLPT FPG\VPAPVLTATLPFFHPEGR YQVEYAFKA*PGGPLPSLAV RGK\DWAVI\TQKKST*PNYL DSS\TVTSLFPR*LKNIW\CVMT GMTS*PADSQ\QRAR\YEA\AN WKIQSMGYEIPVD\MLCKKNCP IFLQVYHTEMLKMKASLRC\CM IFNWVIDEEQGPSRYIRC\DPAG YYCGV*KPTASGS*TKLRSTGF LEKKKCKKKF\WTF*TRQWET A\TLPLCLTVPIQLDFKTFQEIEV GVVTVENPKF\RLTAEIDAQL VAPSKRRD
18762	49130	A	18871	1	471	
18763	49131	A	18872	1	1524	
18764	49132	A	18873	2	719	RPQRAGPVRRAGVMALLDLAL EGMAVFGFVLFLVLWLMHFM AIIYTRLHLNKKATDKQPYSKL PGVSLKPLKGVDPNLINLET FFELDYPKPLFFSVAPMKRIKT QM**P*CSTY*YEVLLCVQDHD DPAIDVCKLLGKYPNV DARLF IGGKKVGINPKINNLMPGYEVA KYDLIWICDSGIRGTMEMPMSL EQSYDPNVRDPIYRNNGDADG QHLVLHDFYQQGSGPKCSLINA
18765	49133	A	18874	200	370	
18766	49134	B	18875	323	448	
18767	49135	A	18876	2	421	FVGP GPGDPPPSETHKL VVVG GGVGKSALT IQFIQ/ILDTAGQE EFGAMREQYMRAGHGFLLVFA INDRQSFNEVGKLF TQILRVKD RDDFPVVL VGNKADLESQRQV PRSEASAFGASHHVAYFEASAK LRLNVDEAFE
18768	49136	A	18877	2	236	
18769	49137	A	18878	1	763	MTPHSALRARGKGGGTGGGSE GSSSGGDMSSGAASGTGRGRPR GGGPGDPPPSETHKL VVVG GGVGKSALT IQFIQSYFVSDYD PTIEDSYTKICSVDGIPARLDILD PAG\QEEFGAMREQYMRAG/HT GFLLVFAINDRQEFSTRWGKLF HADFCGFKDRD\DFP\VVLVGN KADLESQRQVPRSEASAFGAS\ HHVAYFEPSAKMRFNVDEGF* RSWCGVVREIPRNKELPPSPPK CPPGRMGGGCPCVLL

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18770	49138	A	18879	2	403	RFLARRTNSTFNQVVLRKLFMS RTNRPPLSLSRMIRKMKLPGRE NKTAVVVGTITDDVRVQEVPK LKVCALRVTSRARSRLRAGGK ILTF/DEVYRHF GKAPGTPHSH KPYVRSKGRKFERARGRRASR GYKN
18771	49139	A	18880	1	1006	PKLR*PEPSRNQVLLTRFQIAVH F/LLSRLQLQFFPRPARSRAFLSRK PKPGPGKKPMALIVEFIGELPTG VHARPPSHVETLNTFSSQIEW HNLRTDRKGNASALALIGTDT LAGDNCQLLISGADEQEAHQRL SQWLRDEFPHCDAPLAEVKSD ELEPLVSLTNLNPQIIRARTVY SGRAGGIQTPISSDLNALGNLP AAKGVD AEQSALENGLTLVLK NIEFRLLSDGATSAILEAHRSL AGDTSREHLLPVGQCANAASS TNHPFVTKKRQCFVFRQLA NGRNDSGWQITHAFWFRFHQH SRIMKYLYGFTARLKEHQPKLR
18772	49140	A	18881	1	716	VCCEFCRAERRHHGEWTIRHN K\DRKGSGARDPKEPGFL*RC CVKLYRFSGPPEPNSNIQPRW LKRLFMS\RTNRPSPVPFSRDES GKMKASLARGKQDRPVVVG PLT*LMLRVSGRVPKTERYVAL RRGPSPGPQAFLQGQGGKIPS LFDQAWPLGLPLKGLLALVPGS SGSLGKGAREGGTRQFSKAP KETPQKPHQNPYVR\SKGRKFE RARGPTGPARGYKKLTLGSYSL
18773	49141	A	18882	3	168	
18774	49142	A	18883	23	2669	
18775	49143	A	18884	279	396	
18776	49144	C	18885	960	1250	
18777	49145	A	18886	52	925	EVLEPRLGVFSNGCFQGLSSVM ALGLKCFRMVHPTFRNYLAASI RPVSEVTLKTVHERQHGHQRQY MAYSAVPVRHFATKKAKAKG KGQSQTRVNINAALVEDIINLEE VNEEMKSVIEALQG*FQ*GLSI* GPHQDPIDKIAVVTA*REALL*T RFSQISMKSPQLNFG*IWASFPE CTAAAIKAIRESGMNLNPEV\EG TLIRVPHSPK*PESTEKCVKL GQTEHQGPKTLLREGFRTQLN EQAGRNP KD/NSLQEDTIRLTEK QISQMADDTVAELYRHLAVKT KELLG

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18778	49146	A	18887	2	389	DSGSHCHAPPTTARRAFPIFGS KSNMATLKDQLIYNLLKEEHTP QNKITAVRVGADGMACAITIL M/KDYNVTANSKLVITGGARQ QQGESRLNLVQRNVNIFKFIIPN VAKYSPNCKLLIRSNPVDI
18779	49147	B	18888	217	423	
18780	49148	A	18889	27	1217	ARRPTRPPDLIATRRRPARRCI SRFPFGSKSNYWQPLKDQLIYN LLKEEQTPQNKITVVGVGAVG MACAISILMKDLADE\LALVDVI EDKLKG\EMMDLQHGKPFSSFR NTKVLSSGKRL*M*LANSKAGS FITGWGHRQQEGKKA VLILVQ AVNVNIFKFIIPNVVKYSP\NCK LLIVSNPVDILTYYVAWK\USGFP KNRVIG\SGCNL\DSA\RFR\YLM G\ERLGSSPH*ACHGWGPWGEH GRFPVLPVMGVGLNVAGVSLE DFWHPDFRTDKD*E\QWKE\VH K\QVVE\SAYEVIK\GYTSLG LIGLSCKPD\LAE\SIMEESFRRV HPS/SSHHGLKGLYGNKRMNVS LSVPCILGQNGIS\DLVKG\TLTS EGRGPVGSKSADNNSWGSTKK
18781	49149	A	18890	1	264	
18782	49150	A	18891	3	736	
18783	49151	A	18892	81	1065	GKGPVAAFIDQSNIFLTDPKIFL GQWREPKMPLLLLGETEPLKL ERDCRSPVDPWAAASPDALA CLCHCQDLSSGAFPNRGVLG VLFPTVEMVIKVFVATSSGSIAI RKKQQEVVGFLEANKIDFKELD IAGDEDNRRWMRENVS*REKP Q\NGIPLPSQ\FNEE\QYCG\DFD SFFSAKKENIISFGLGWAPLPDS KGSEKAEAG\GETEAQKEGSED VGNLPEAQEKNEEEGETATEET \EEIAMEGAEGEAEETAEGE EPPGEDEDLGLFMLHFFHSQ KMEAMKQHSNVLSTNQTEY FGLKPAHPRVTEDIMLPDLIR
18784	49152	A	18893	19	445	

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18785	49153	A	18894	1	622	QAAWILKARALTEMVYIDEIDV DQEGIAEMMLDENAIAQVPRP GTSCLKPGTNQTGGPSQAVRP TSHSEKPITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGTASMLTSPDGPFIN*SRL NLTKYSQKPKMAKALPEYIFHH ENDVKTALELAALSTEHSQYK DWWWKVQIEKRYRGLGMYRE AEQLISAMKQ
18786	49154	A	18895	1	1651	MKAEICKSRTVKDWHNHQKLG EGNKTDSPQPSEGNTANTLIL DFWPLEMIACCWETFPQRLTAE LFMNPTRWHGYKNQSVGAL RAPLGQGSPRRGLPGRVGRRL FTPRPPLSWSAGPSLAAPAAMS SEMEPLLLAWSYFRRRKFLCA DLCTQMLEKSPYDQEPDELPV HQAAWILKARALTEMVYIDEID VDQEGIAEMMLDENAIA/PSSTP ITQAGRPIITGFLRPSTQSGRPGT MEQAIRTPRTAYTARPITSSSGR FVRLGRLGMYREAEKQFKSAL KQQEMVDTFLLYLAKVYVSLDQ PVTALNLFKQGLDKFPGEVTL CGIARIYEEMNMSSAAEYYKE VLKQDNTHVEAIAICIGSNHFYS DQPEIALRFYRLLQMGIYNGQ LFNNLGLCCFYAQQYDMTLTS FERALSLAENEEEAADVWYNL GHVAVGIGDTNLAHQCLRLAV VNSNNHAEAYNNLAVLGDAEG /RHVEQARALLQTASSISTPYV* TAFLILQQSLIRFGDLQRSYVAA QKSEAAFPDHDVTQHLLIKQLRQ HFAML
18787	49155	A	18896	2	295	
18788	49156	A	18897	1	4470	MLGLGLLRLRQGSNAVTRCRP LPVRREGRRDGSPWRSVVCRY CRCSRQTGASVTTVSLPSSSSSP GLDPRGPRQASVKKPAEANPV LRPLVRHGTPYRDSEEGKREGL SRLRAVCRRAGPRGRGSFSPRD ARASPRHLFLVAAVTTGAASRR QRGARVRQSPSSSRRAKRLRE CERRSLHAPPAMDASYDGTEV TVVMEEIEEAYCYTSPGPPKKK KKYKIHGEKTKKPRSAYLLYY YDIYLVQQLPHLPQS

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18789	49157	A	18898	89	810	QRRSGCVLRMTIEWETAA\PAG GQRTPDICALWGS GAPDDVAR SMNISLQ\DYIAS*RRKLCPSYLP HSCQGGYAAKNLSRKAQ\CPI VER\LTNSPMMMHRPQQPARK LMTVRIVQA/HAFEIITPCSQAE NPL\QVLGEPPSINSQ\PREDST HLGAAGTVRRQAVDV\SPLRV EPGPFVWACCTRRLVKGLAFPG TFKTIG*VAWAD\ELI\NACQGA PSNSYCL*EEGRVAFLEHVAKS NR
18790	49158	A	18899	1	365	DTHFK/DSHRTSTAHL\LSLQ GPSPPNLPLGVPI\S\GMGLGPRG EGRANPIPTVLKRDQEGLYRS APQPRVTHFPWDTRAVAGRE RPPRVATLSWREERRREEKDRA WERDLRTYMNLEF
18791	49159	A	18900	203	427	
18792	49160	A	18901	95	482	ALQSPKLWGYFSGRKVFLNYFF SSQQVSEAVVATGSPRAWLTC LILPLPGIIFSVLPKAMSRPLLITF TPATDPSDLWKDGQQQPQPEK PESTLADGLAAKLFYEALIGDES SAPDSQRSQTEPARERKR
18793	49161	A	18902	348	1660	GVTHLFLFGKRKLNRNGIAGRIK GPGWIFFSYCRSLRLWLLTGSP LSLALPCLILPLPGIIFLKFSQKAI VPGPLLITFTPATDPSDLWK\DG QQQPQPEKPESTLADGAAARAF YE\ALI\GDESSAPDSQRSQT*T WPEERKRKKRGLLKAPAAEAL AEG\ASGRPQVQGRSLEADDPMT YRILTSAQEGDLP*LMRLLEPH EAGGAGGNINARDAFWWTPL MCAARAGQGAAVS YLLGPG\A AWVGVCELSGRDAAQLAEEA GFPEVARMVRESHGETRSPENR SPTPSLQYCENCDTHFQD\SNHR \TSTVHLLSLSQGPQPPLPLGV PISTPRF*ILLGGVGSPPGMGLG PRGEGRANPHPQLIK*GPRKG LG\YKISTPSPEVTHFPSFGIPRA VAGRERPP\RVATLNWKE/ERR RREEKDRAWERDLRTYMNLEF
18794	49162	C	18903	135	299	

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18795	49163	A	18904	3	2074	ERSRPVALRAAVPRMNPSTPSY PTASLYVGDLPDVTEAMLYE KFSPAGPILSIRICRDLITSGSSN YAYVNFQHTKDAEHALDTMNF DVIKGGKPVRIWMSQORDPSLRKS GVGNIFVKNLDKSINNKALEYDT VSAFGNTLSCKVVCDENGSKG YGFVHFETHAEAAERAIEKMNG ML\LNDRKVFVGRFKSRKERE ELGARAKEFTNVYIKNFGEDM D\DGRLK\DLFGKF\GPALKCEK LMTDESGKSKGFGFVS\FERHE DAQKAVDEMNGKELNGKQIY VGRAQKK\VERQTELKRKFEQ MKQDRITRYQGVNL\YVKNLD DG\IDDE\RLRKEFSPFGTIQLVP KVMDGGLVAAKGLGFVCFSSP E\EATKAVTEMNFRIVATEPL\Y VALA\QRKEERQAHLTNQYYG RGM\ASVTEAVPNPVIQPLPGQ APPFRFTFMGRFSHRFRNRA\AY YP\PSQIAQTKTKFLRWGQGA RT\HPF\QNMPCGYPAQLAPRPP I*GTM\RPASSQ\VPR\VMPTQR\ VANTSNTDKWVPRSCSLQAAA AYVL\RPAPFPQYKYAAGVRNS \QQHLNAQPQVTMQQPCCSMV PRVQGT\WTCLPMVGHLPPPSR SKSQMLGWNGLFPSYSKPMHP YSLLVKSLG\MLEIDNSEL\H ML\ESP\ESLPF*RVDEAVAGTTS PPQAKRGLAQKAG*QVPTGVP
18796	49164	A	18905	1	988	MAEDGEAEFHAALYISGQW PRLRADTDLQRLGSSAMAPSRK FFVGGN\WKMNGR\KRRLGELI GTLNAAKVPADTEVVCAPTA YIDF\ARQK\LDPKIAVAAQNCY KI\TN\GAFTGEISPGMIKDCGQ PWVVLGHSERRHVF\GESDELI GQKVA\HALAEG\GVIRLHLG RS*DERGSLGIT\EKVVFE\QTKV IRR*T*KDWKQ/VVVLGLMSPV WGLWLLARLATPQQA\QEVHR RSSRGWL\KSNVS\DAVASEPPV TIYG\GSV\TGATLQRLAKPSP DVDGLPLWGGASLQARNWDI IQCHNNEPPSHLSLPLRCQAQG LKQTQKPK

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18797	49165	A	18906	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
18798	49166	A	18907	1	360	
18799	49167	A	18908	52	513	QLGPHGHRQPGGPAVPHPRG LVPLPPALLPSGPRRGRQTQAPR HSGPAL*GHPASDTYIVFGEAKI EDLSQQAQLAAAEKFKVQGEA VSNIQDNTQTPTVQEESEEEV DETGVVEVKDIELVMSQANVSR AKAVRALKNNSNDIVNAIMEL
18800	49168	A	18909	1	422	RSLCQTGLRQ/VTG/VTKVITGN LENLFVI/TKPDVYKSPASDTYI VFGEAKIEDLSQQAQLAAAEKF KVQGEAVSNIQENTQTPTVQEE SEEEVDETGVVEVKDIELVMSQ ANVSRAKAVRALKNNSNDIVN AIMVSVQAFVP
18801	49169	B	18910	427	529	
18802	49170	A	18911	122	252	
18803	49171	A	18912	44	189	SKLDYKSSKRHRKPVSFNFTSF QIWD*FLFFF*LKCQLQPRVFSQ PN
18804	49172	A	18913	2	609	PFLPEAHLGNQKCQNCNSTSGI CRVSVKVCPCGPWWHAKLCAPT LMSRDVTLDPAPVKKPCGEGG AKKKKQVLKFTLDCTHPVED G\IMDAAQF*ASFCKERIKVNG KAGNL\GGGVVDPSKGARGKIT VT\SEVPFSKRVF*KYL/TPKKY LKKNNLR*PGLPRSLPNQPKEK LPNFRYFQINQRRKEGGRRGF KFPLSGKILL
18805	49173	A	18914	107	524	AGTHLPPFLPVAVRQPMALR\Y PIAVGLKQGPTKVTQEP*ASPR HHVRRGRL\TKHTKFVRDMIRE VCGFSP\YE\RRAMELLKVSKE K\RALKFIKK\RVGTHIRAKRR EELEQQYWPAIEEKLACQERLE PLPLPSPLK
18806	49174	A	18915	39	465	

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18807	49175	A	18916	439	1586	TWGPPARRLPSGSHVPSA/ASSR LPSPREEPQLPQPAPVTITATM SSEAETQQPPAAPP\GAPALSAA DTKPGTTGSGAGSGGPGGLTSA APAGG\DKKVIATKVLGT\VKW FNVRNGYGFINRNDTKEDVFV HQTAIKKNNPQKYLRSVGDGE TVEF\DVVEGEKGAE\AANVTG\ PGGVPVQG\SKYAADRNNHYRR YPRRRGPPRHYPQ\NYQNS\ESG EKNRGIGRVLPEGQAQQRPPY\ RRRRFPYYMRRPYG\RRPQY\S NPPVQGEVMEGADNQGA\GEQ GRPVRQNMRYRGYRPRFRRGP\ PRQKTA*ERAAMEEDK\ENQGV WDPRFGSPQ\RRYRRNF\NYR\ RRRPQKTPKP\QDGQKRPKAAG SHPA*EFVPLPEAE\QGGAE
18808	49176	A	18917	1	651	MTAFNSGKVDIVAINDPFIDLN YMVYMFYLDSTHGKFHGTVK AENGTLVINGNPIT\IFQDQDPS KIKWAP/LAKVIHDNFGIIEGFM TTVHTITATQTINGPSG\NCHVM AAGLSRTSSL\LLA/LAKPVGK VIPELNGKLTGMAFHVPTANVS VADLTCRLEKPA/KYDDIKK\NT HSSTFDAGAAIVLKDHSV\KLIS WYDNEFGYSNRVVH\MAHNA
18809	49177	A	18918	2	5264	

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18810	49178	A	18919	3	1466	PRSAPRAASWLEDPREVRSVCL SAPPVRQSAAIFFCVASRATSLR TPMGKVKVGVNGFGRIGHLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGT\VK AENGKLVINGNPITIFQE\RDPSK IKWG\DAGAEY\VVE\STGVFNQ PWRKAGAHLQGG\AKRVINSAP SG*MPPMFVMG\VNHEEV*QTA FKIIASNASCTNQLA*QPLAKG*F HDNFG*SWEGLMTTVPWPSLG NPRKTVD\GPSRG\NCGPWMGR GGFSRNIFLC\LYWALPRAVGKG HP*A*TGKLTG\MAFPVSPTAN VVSGWTLTCRFRKNLPKYDDI KEGW*KQAFGGAPSKGIPGLQL SHQV\SSDFNSDT\HSFHPFDA GA\GIA\LNDHFVKL\ISWYDNE FGYSNRVVDLIGPHGLQGSKTP WTTEPQARSKKGKERPSLLGSP CHTQTPTTLNLPSQLPCRPLEE GRGLWEPHLVMYPSNKVSLCS TKKKKKKKKP
18811	49179	A	18920	3	364	STVINIHSETSVPDHV/VLVPVQ HPLLE\RCCLGFIAFAYSVKSRD RKMVGDTVGAQ/ALCLHRQVP EHLGPDSGHPHDHWIHPVTGIR LCDSLPYVVDNTGKTGLLVA AHS\QPLHSTVQCW
18812	49180	A	18921	41	696	PDRRWSSLGHHESHCPNHSSLL STVASPPNYEDAQGR*SR/EVA VLGAPHNPAPPTSTVIHIRQSR PPWPDHVVWSRVQHPLQ*TPA C\LGFI AFAYSVKSRGQGRWLG DVTGAQGLMPPPAKV PETIWG PDFWGILNDHF\VHRHPQWLIFP G\HGIDQGRHHWRPGALPI/VTC IPRLPT\SIPRAPRSPKSCISPYI LTRFSTMAFNKSARVSGKKKK

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18813	49181	A	18922	127	1016	SNLILRNLFPCPHLALASSAFDKK QEEETVEKTELLAERRGLTENH PGNPITAGHHEPHCANLLSCQQ RPRLPNYEMLKKEEQEVAMLGA PQKPCLPECPPVIHYPQARPPWP DHVRLGPCFNNPLQ*TTCCPGL SLGISAYFRGSFRGTGKMW\GD VEPGPQGLMPPTAQVAP*TSGA PDLGLSLHEPILAHQSSPPKCW VVPGAIDQEA\SLRP\GA\LPVT C\IPRTLASSIPSPLPPEARELLPFD LYSTYSTFHSSPCPHSRVLHQPF ILTRFSTMAFNKVYMFVLVKKK KKKKKKV
18814	49182	A	18923	115	652	VSESTDVLSIGRLVTRA\AFNSG KVDIVAINDPFIDLNYMVMF\ QYDSTHGKFHGTVKAENGKLV INGNPITIFQ\ERDPSKIKWGDA GAE\YVVES/TLGVFTTMEK\A GGSFCRGGAKRVIHLLPPLA*C PPCFVMGVNHEKDDN\TLKIIS N\ASCTTN\CLAPLASTGAAKGC GQGHPEA
18815	49183	A	18924	91	399	
18816	49184	A	18925	26	304	
18817	49185	A	18926	18	203	
18818	49186	A	18927	23	355	
18819	49187	A	18928	1	211	RLLRVRGPPSPRPPGTPAGRQA RHTAPVPARASPSTPPRKLKER APALASPERGSHSAAEG*RAPQ VPPK
18820	49188	A	18929	2	800	
18821	49189	A	18930	1098	1560	VSCPFTVIIFCYNFCRGGFSTTA VMARAKSMFLMLKGKAGPDF GIRFTASSGWFT*FEDRYALHN VNMNAESVGADVKAEE\DFGS LIMEEIYLPQTQFFNMEEPSLFWK QMPERTFVICPKGFFPDHCNKE RPWHFCKRKSLTDTRVATPCG
18822	49190	A	18931	33	211	
18823	49191	A	18932	110	624	CILSKMLRSPQELARLPGGQRQ LTRW*QRWPLWTIALVLVLR VKSGP*S*RVSPSP/PVEPWVT LNMAGAPHGNPAFPFGPPHP VPQPGYPGCQPLGPYPYPYPPPA PGIPPVNPLAPGMVGPVIVDK KMQKKMKKAHKMKHKQKH HKYHKHDKHSSSSSSSSSSSDSD

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18824	49192	A	18933	2	664	CEPLRISGRPTRPGERSKPRRRL ER*WGWRTHLNMWNPAGQP GPNPYPPNIGCPGGSNPAHPPPI NPPFPPGPCPPPPGA\PHGNPAFP T\GGPPHPVPQ\GYPG\CQPLGP YPPPYPPAPG\IPPVNPLAPG\M VGTKQLISRQEDCRRKLKKAS* KRCHKA/HQKHHK\YHKHGKH FLLFPPPSFQAVISGLEYSRALDP SLKSHQFCSPIKLQMPCCCTGGM
18825	49193	A	18934	3	409	QTQVVIDAG/ALAVFPSLLTNPK TNIQKEATWTMSNITASR/QDQI QQV\NHGLVPFLVSDLS/KDFE TQKEAVWA/GGTVEQIVYLVH CGHIEPLMNLLPAKDTKILVILD AISNIFQAAEKLGETEKL SIMIEE CGGV
18826	49194	A	18935	133	400	VLGPHGLGDHLGQFHSCQSRA EPPIAGEDIHAGLDEPDCLTKDF LRI*LQLSTQLHAGQEEEDQNV VPETTSEGYTFVQVDGAPGTFN
18827	49195	A	18936	218	863	
18828	49196	A	18937	106	1879	TQSALQPLIPPASPSPWKAQARF GAFSLCLITMSTNENANTPACP VVHRFKNKGKDDSTEMR\RRRIE VNVELARKAKKDDQMLKRERL *AHFLDDATSPLQEN\RNQGT LLNWSVDDIVK\GINSS\NVENQ LQATQAAR\KLLSREKQPPIDNII RAGLIPKFVSFLGR\DCSP\IQF ESAWALTNIASG\TSGQTKAVV DGGAIPAFIFSGWASSHAHISEQ AVWALGNIAGDGSVFRDLVIK YGAVDP\LLALLASS**CQSLAC GYLR\NLT\WTLNLC\RNKNPA PP\IDAVEQILPT\LVRLHHDDP GSVRQDT\CWGYFPTLLDGSK WNGIGHGWV/VKQGVVPQLVK LLGASE\LPITPA\ALKSP*GNNW HLGTDEQTQVVD/IDAGALAV FPSLLTNPKTNIQK\EATWTMSN ITAGRQ\DQIQQV/V*NHGLVPF PLSVFLSKADFKTQKEA\WAV TNYTSGGTS*TEL VYL\HCG\II EPLMNLFYCKRLPRIILLILDAN FKISFQPAENLV\DLKPSINLE\ ECGGLRPKLKALPKPMKMESV YKASVKA*FEKYFPCRGKEGRI KTVVPIETT\SEGYTFPSSRMGPP

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18829	49197	A	18938	2	251	KVTNVKDGTTTH\QTSLELFMYL NEVAGKHGTVGRIDIVENRFIGM KSR/GMNVQGDYEPTDATGFIN INSLRLKEYHRFQSKVTVK
18830	49198	A	18939	1	888	
18831	49199	A	18940	1	1155	MSSKGSMLVLAISGGLNTSCILV WLKEQGYDVTAYLANTGQKE DFEARKKALKLGAKKVFIEDV SREFVEEFIWAAIQSSALYEDH YLLGTSLTRPCIAHKKVETVQR VGAKYEGPWRAPWRMPEFYN WFKGRSDLMEYAKQHGIPLVT PKNLWSIDKNLMHISYKAGILE NPKNQVPPGLYTKIQDPAKAPN TPDILKIQFKKGVPVRVTSVKD GTTHQTSLELFMYLNEVAGKH GVG/YIAIVENIFTRQRP/SPECEF VRPCIAKSQEPAGKVQVPVLK GQVYILGWESPLSLYNEELMSV NVQGDYEPIDDTGFININSLRLK EYHCLQSLLEFAGCRLQTLFAW VSPAGAAEQRLLPVPSSGNFIP EGHLPDASWSSPV
18832	49200	A	18941	1	993	MSSKGSVVLAYSGLDTSCLV WLKEQGYDVIAYLQAVKGN QLLPVSLVKRKTTPGAQYANR LSPRVGRFINAAGTTGFPTGKR AGNDQVRFELSCYSLAPQIKEM GSLKVRNE/LQEVSTVPMFAST QLPADTQCKLAE/LSAPVKK*T LGLSKT*QTQVMSSQSADSMR AWYRN*LFTNPTVRRLGNSPVT GSSLPRLP/RGIYETPAGTILYH AHLDEAFTMDREVRKIKQGLG LKFAELVYTGAECKLLVASVPE PWRGRGGVEEGGRDIKEVQEH GSDSAESSTHPPASRPGEGCLA CIFCGKWRHLNTPLSERYPRH SRDHRPH
18833	49201	B	18942	324	1035	

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18834	49202	A	18943	29	1516	KQIPDAGNSRLQSQTLLSSKGS VVLA YSSGGLDTSCIL VWLKEQ GYDVIAYLANIGQKEDFEEARK KALKLGAKKVFIEDVSREFVEE FIWPAIQVQAHLY\EDRYLP LHSLPGPCIAARKQVGNSSGRGA KYVVPTGATGKGINEQVRFEL S\CYSLAPQIKVIAP\WR\MPEFY NR\FKGRNDLMEYGKATLGFP PVT PKN\WSMDENLMH\SYE AGILENPKNQAPPGLYTK\TQGP SQKPPTPLDILGDSSFKKGVPE GGPTFKDG\TTHQTFLAELFMY LNEVAG\KHGRRVFDIV\ENRF IGN*SPRGILRRTPAGHHSFYH AHLDIRGLSPWDRGSCGKIKQG PGAWKFAEL\YTGFPAPAPE\ CEFCPPTGIAKVPRKPSGKGKV QVVRSFKGQVYI/LSGREIPHC LLLTMRLELVKHGTCKGDYWRP IDGHRGSSKHQIPFKAEGNYHR LPRAKVTQCIDPVYNEELGPPQ FSGSPQVTGANCCDNL
18835	49203	A	18944	1	560	GRARTPANMALRVVRSVRALL CSLRALWAPVPCLPWPQLG AGAIWTLTGPVLLWVCKFTE KHEWITTENGIGTVGINNFANE ALGDVVYCSLSEVGTKI*TKPS WSLVLLESVKAASELFSPLSG EVPDFNEALAE\NPGLVTKSRY EDG\WLIKMTLSNPFRT*MHL MSEEAYEKYIK\SIEE
18836	49204	A	18945	3	108	
18837	49205	A	18946	1	845	MAIPGIPYERRLLIMADPRDKA LQDYRKKLLEHKEIDGRLKELR EQLKELTKQYKSENDLKALQS VGQIVGEVLKQLTEEFIVKAT NG\PRYVVGCRQVIELPLTNPE LFQRVGIIPKGCCLLYGPPGTGK TLLARAVASQLDCNFKVSSS IVDKYIGESARLIREMFNYARD HQPCIIFMDEIDAIDIDLNEQA RLDILKIHAGPITKHGEIDYEA VKLSDFNGADLRNVCTEAGM FAIRADHDFVVQEDFMKAVRK VADSKKLESKLDYKPV

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18838	49206	A	18947	3	1181	LLIMADPRDKALQDYRKLLLE HKEIDGRIKELREQLKELTKQY EKSENDLKALQSV\GQIVGEVL KQLT\EEKFIVKATNGPRYVVG CRRQL*QKVSLKPGVTRVALD MTTLTI\MEDILPR\IEVDPLVYN MS\HEDPG\DVSYSEIGGLS\EQI RGI*GEVIGLPLYKPSYFQRVG IIPPK\GCLLYG\PPGTGKNT/LLA RAVASQLDCNFLKVVSSSIVDK YIGESARLIREMFNYARDHQPCI IFM\DEIDAIGG\RRFSEGTSADR EIQRTLMELLNQMDGFDLHR VKMIMATNRPDTLGP\ALLRPG RLDRKIHIDLPNEQARLDILKIH AGPITK\HGEIDFESNC*SFRMG FNGADL\RVNCT*SQACSPIRAD P*FC*YREDFMKA\VRKVA
18839	49207	A	18948	1	220	VNMRDRFGQIMIENTLRRRQCEL AGVETCKSLES\RIESLEFLDEM */LLEQLM/RHYCLCWATKGGN ELGLKEITY
18840	49208	A	18949	1	645	
18841	49209	A	18950	10	1226	AAPAEPRALPSSVAFSLWLAP SPAARRPRFHPGGAQLPGTVH ARWPARQR\ESSITSCCSTSSCD ADDEGVRGTCEDASLCKRFAV SIG\YWHDPYIQDL\VRLSKQR\ KAPEINRGYFARVHGCSVQLIK\ AFLR\KTECHCSNCSNLGGQGM GSPPFWRLKDEDLSSQVNIFEV DFPMIVTRKLHSIKWLAFLSS PILELHSEDTLQMASDCIC\DGH ILDSKRYAVIGADLRDLSELEE KLKKCNMNTQL\PTP*IAECVL VYMTPE\QSANLLKWAANSFE RAMFIYYQQVNMGDLFGQIMI ENLRGRP/CDLAGVETCKSLE SQKERLLS\NGWENKHRPVRT* LEFVPPGLPSK\K*SRIESLE\LD ENWELLEQLIP\HYCL\CWATQR RK*SLGLKEITY
18842	49210	A	18951	3	502	TEANTLN*RGLQNME/ARLAE/ RKFM/NPFNMPNLYQKLESD/P RTRTLSDPTYRELIEQLRNKPS DLGTLQDPRIMTTLSVLLGVD LGSMDEEEEIATPPPPLSSSMS LSPAPSCCLGCSPIVGFFFIWGS GHVMGRGGGSSSLRSQLSHVV YSASPSPIKQASWAWL
18843	49211	B	18952	1	1071	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
18844	49212	B	18953	67	1026	
18845	49213	A	18954	2	1910	PVASSMFQKAARAVGNAERTD SIQRCSGPRCAMEQVNELKEKG IKALSVGNIDDALQ\CYSEAI*/R LDPHNHVLYSNR\SAAYAKKG DYQKAYEDGCKTVDLK\PDW GKGYSRKA AALEFLYRFEEAK RTYEEGLKHEANNPQLKEGLQ N\MEARLAK\RKFMNPFNMPNL YQKLESDPRTRTLLSDPTYRELI EQLRNKPSDLGTLQDPRIMTT LSDLLGVDLGSMDDEEEIATPA PPPPAKKETKPEPMEEDLPENK KQALKEKELGNDAYKKKDFDT ALKHYDKAKELDPTNMTYITN QAAV\WFEKGDYNKCRELCEK AIEVGRES\REDYRQIAKAYARI GNSYFKEEKYKDS\IHFVYNKSL AEHRTPDVLKKCQQA EKILKEQ ERLAYINPDLALEEKNKGNECF\ QKGDYPQ\AMKHYTEA\KRNPN KDAKL\YSIRAACYTKLLEFQL ALKDWEEWYQLEPTFIKGYTR KA\AALEA\MKDYTKAMDVYQ KALDLDFSCKEAADGYQRCIM AQYNRHDSPEDEVKRR\AMADP EVQQFMS\DPA\MRFILKQMQK DP\QALSE/HL*RNPLLPREIQKL MDVGSDCKFGDDLFI PAFLCPS CGKRSWDRGEQAARSGRESST ERKGEQGERRPSSPYIYT
18846	49214	A	18955	2	293	
18847	49215	B	18956	53	182	
18848	49216	A	18957	2	403	
18849	49217	A	18958	3	1646	
18850	49218	A	18959	3	408	
18851	49219	A	18960	1	2458	

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18852	49220	A	18961	88	1511	LWPLGMA SNSSCPTPGGGHL NGYPVPPYA FFFPPMLGGLSPP GALTTLQHQLPVSGYSTPSPATI ETQSSSSEEIVSPSPPLPRIYK PCFVCQDKSSGYHYGVSACEG CKGFFRRSIQKNMVIYTCRDK NCIINKVTRNRCQYCR LQKCFE VGMSKESVRNDRNKKKKEVPK PECSESYTLTPEVGELIEKVRKA HQ\ETFPALCQLGKYTT\NNSISE QRV\SLDIDLWDKFSELSTKCI KNGEGRQGR LPGFTTLTIADQI TLLK\AACLDILILRICTRYTPE AGTP*PSWDGLTLNR\TQMHNA G\FGPL\TDLVFAFANQLLPL\E MDD/ARETGLLSAICLICGDRQ DLEQPDRV DMLQEPLLEALKV YVRKRRPSRPHMFPKMLMKIT DLRSISAKGAERVITLKMEIPGS MPPLIQEMLENSEGLDTLSGQP GGGGRDGGGLAPPG\SCSPSL PSSNRSSPATHSP

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18853	49221	A	18962	143	2159	LTHSSTWLGRSCNHDRQMGSKVMSYVVAGRGTCAQETPIYT TIRYLEDKEQYGGSLGVDSVLA RLFSGASVLFISGPPFSSYLSGVP PGHPMEDSMIDMDMSPLARPQ NYLFGCELK\ADKDYHFKVD\N DENEHQLSLRTVNLGGLVAK G*VAHLLKAEAIEFTEASPNLK VTTWAT\LKMSVPAQRVFPLG GLLKITPTRWVLKGLKVWVQG PVHISGTAL**LWEGRCQSPED E\EEDVNRVLFMKPKGRGLKH MFGDLVCSWKLAAIETQSSSE EIVSPSPSPPLPRIYKPCFVCQD KSSGYHYGVSACEGCKGFFRRS IQKNMVYTCHRDKNCIINKVTR NRCQYCRLQKCFEVGMSKESV RNDRNKKKKEVPKPECSESYTL TPEVGELIEKVRKAHQETFPAL CQLGKYTTNNSSEQRVSLDIDL WDKFSELSTKCIKTVEFAKQLP GFTTLTIADQITLLKAACLDILIL RICTRYTPEQDTMTFSDGLTLN RTQMHNAGFGPLTDLVFAFAN QLLPLEMDDAETGLLSAICLICG DRQDLEQPDRVDMLEPLLEA LKVVYVRKRRPSRPHMFPKMLM KITDLRSISAKGAERVITLKMEI PGSMPLIQEMLENSEGLDTLS GQPGGGGRDGGGLAPPPGSCSP SLSPSSNRSSPATHSP
18854	49222	A	18963	748	1075	ILPTSLLFLFCFVFFVCF*DRVLL LSPG\WSAVARSWLYCNLSLRG FKGFSCLSLLSNWDYRCTPLRS ANFVFL/CRDRVSPCWPTSVSNS *PQ\VIHPPWPPKVLGITRV
18855	49223	A	18964	3	674	GRRRLLRDAEGPEETVRLWPA ARAAMDAAEVEFLAEKELVTII PNFSLDKIYLIGGDLGPFNPG\LP VEVPLWL/ARLNLKQRQK\ICRL LPPEWMDVEKLEKMRDHEARK EET\TPMPKPFTTWELTKLL\N NHA\SDNIPKGRTEFRDPGSRVF WGHSY*AKFRVFG\DSF\VRQQ EAHAKLD*LGPWMGDQQPAVT FLTQA\LNPHVTNSRTNPPSPLE STSVLRTS

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18856	49224	A	18965	261	876	VAQKIDMPEYQGEPDEISIQKC QEAVRQVQGPVLVEDTCLSFN ALGGLPGPYIKV/WFLEKLKPE GLHQLLA\GF\EDKSA\YALCTF CTQAPGDPS\QPV\RLVSGGRDL RGRIRWHPEGCQ\DFGWD\PC\F QPDG\YEQTYAEMP*GRRNA VSH\RFAPCWEPAEYFWQV WPSLTASWKEGPSRPGDLGK GLAPKPSPHRGRAPP
18857	49225	A	18966	2	181	TAEKMAVLAPLIA\EVVSVPRE RWLAQPYLLSALLSAAFLVR KFPPLCHGLPTQREDGNPCDFD WREVEILMFLSAILMMKNRRSS TK*AHPTRRR
18858	49226	A	18967	5331	5454	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18859	49227	A	18968	5186	5308	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18860	49228	A	18969	4570	4691	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18861	49229	A	18970	5666	5788	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18862	49230	A	18971	5630	5752	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18863	49231	A	18972	224	456	
18864	49232	A	18973	5543	5665	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18865	49233	A	18974	4602	4725	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18866	49234	A	18975	3	313	
18867	49235	A	18976	5480	5602	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18868	49236	A	18977	269	394	
18869	49237	A	18978	5322	5445	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18870	49238	A	18979	164	434	
18871	49239	A	18980	5364	5487	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18872	49240	B	18981	18	1904	
18873	49241	A	18982	1296	1973	RILPGGQQNSSWNFSEDTVISIL NTINEVIAENLEAAKKLRETQGI EKLVLINKSGNRSEKEVRAAAL VLQTIWGYKELRKPLEKEGWK KSDFQVNLNNASRSQSSHSYDD STLPLI*PGPKNQIRNLIGKKFR* AIWDQQTQNH*IT/DYSTPNERGD HNRTLDRSGDLGDMPLKGT PLMQDEGQESLEEELDVLVLD DEGGQVSYPSPMVCPSVTPKIVL EEGGS

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18874	49242	A	18983	5844	5967	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18875	49243	A	18984	5781	5904	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18876	49244	B	18985	1	1477	
18877	49245	A	18986	152	1539	
18878	49246	A	18987	5571	5694	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18879	49247	A	18988	4551	4674	ETEA*RINDLL*LLEFFCNI*QN* P*IRPTVIRSSLKYNT
18880	49248	A	18989	2	1043	GVRLRYSPIAVVMVGEAGRDL RRRAVAVTAEKMAVLAPLI/S LSVYSVPRILSRWLAQPYLLS A\LLSAF\LLVRKLPLCHGLP TQ\REDGNP\CDFDWRE\VEILM FLSAIVMMKN\RRSITVEQHIGN IFMFK/SKVANTILFFRLDIRMG LLYITLCIVFLMTCKPP/LSPYM GPEYIKYFN\DKPFDEELERDNR VNW/ILLEFFGNWSNDWQSFAP IYADLSLYNCTGLNFGKVDV GRYTDVSTRYKYSTSPLTK\QLP TL\ILFQGGQGGQCGRPQI*QGK GR/ALFSWDL*GT*KEGQENVI REFNLNELYQRAKLSKAGDNI PEEQPVASTPTTVSDGVENKKD
18881	49249	A	18990	1	1105	MESTGEDAVNIVEMVTEDLVY RLVVLKSLQVWLSPGDFMGSE GTECMLIGPWVAMGRPSESTLS SHSGPRSPHGTGSPAPRLQAVH VLKCPKSRGVQGGWGLASQCL PEHRHTQLSCDSTQAWPQLCSA QSLRHNRSGQGAGAVTSEPAG AGGLPRPPRTQGCLGAES/PAG QLHSQQRGGPEEGRLLSDVDHP DLSSSQQRGPEGP/QVAGGWCV SAAWSSTHLAGPQQRWDQEEA RQWEQIPLSLLMMGDPPGYSR APGDPGPQPQPRQLQLCLGSSH PTNS*GAELPPVPGSAECAALT VLPSLHLPQWWQVGRPGPT*V DPRVGLPGQQAPEQRVYSLTHP EQLPVLQVPLLIYRYSSTYNGV
18882	49250	C	18991	105	393	
18883	49251	A	18992	38	230	LYWQKRKGKLLNNLTQGIVAD PVR*KKFHKCPSNCPKIHNTES AYAVSFMKYSAHVLGSLYEM
18884	49252	A	18993	487	747	
18885	49253	C	18994	179	649	
18886	49254	A	18995	3	3187	
18887	49255	A	18996	274	423	

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18888	49256	A	18997	1333	2243	RCWRPRTLGFASPPTRPCSPTH APGCEMTPRDWHRVLSFASPLR IEEIFQGYDKTFGLKNKKGAKQ QKFIKAVTHQVKFGQ/SKSTSGS TE*SWKRKLKKDDKKELQEL NELFKPVVAAQKI/RVKGADPK SVV\CAFFKQGQCTKGDCKFS HDLTLGEKMÆKRSVYIDARDE ELEKETKSSLIQADTMDNWDE KKLEEVVNKKHGEAEKKPKT QIVCKHFLEAIENNKYGFVWV CPGGGDCMYRHALLPPGFVLK KDKKKEEKEDISLEDLIERERS ALGPNVTKITLESFLAWKKRKR
18889	49257	A	18998	1	322	
18890	49258	A	18999	1	822	MGKAKEEVFLADELVHAKTNR NKECDYSVTANSKIVVVTAGV RQQEGESRLNLVQRNVNVFKFI IPQIVKYSPDCIIIVVSNPVDILT YVTWKL SGLPKHRVIGSGCNL DSARFRYLMAEKLGIHPSSCHG WILGEHGDSSDHPGRPRPHPVPI KPPETLPGRDTSSWTSRGAHWR RNTQAAGRREHIDRHQQAIDR WNNVGFGRRGQRRARLLSDLT PTGKPSSYSVSLAPPASAEYFH SIKPCIHSPS*CMQRPPIEIKN/RD YSVTANSKIVVVTAGVRQQEG ESRLNLVQRNVNVFKFIIPQIVK YSPDCIIIVVSNPVDILTYVTWK LSGLPKHRVIGSGCNLDSARFR YLMAEKLGIHPSSCHGWILGEH GDSSDHPGRPRPHPVPIKPPETL PGRDTSSWTSRGAHWRNRNTQA AGRREHIDRHQQAIDRWNNVG FGRGGQRRARLLSDLTPTGKPS SYSVSLAPPASAEYFHSIKPCIH SPSPREIQFFGYTKARNPRVQK

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18891	49259	A	19000	1	1337	MEKPKRLRWLWGPAPSSLLAE PAPEETHAADVFVSARLLQRSP EPSLSWGGRALAEEQKAEGSSC GSAERLVAFAAKTRPYLSLCK MATLKEKLIAPVAEEEEATVPNN KITVVGVGQVGMACAISILGKS RAMEHTTAGAPYTPRQQTCQC NMMSLADELALVDVLEDKLLKG EMMDLQHGSLFLQTPKIVADK DYSVTANSKIVVVTAGVRQQE GESRLNLVQRNVNVFKFIIPQIV KYSPDCIIIVSNPRDILTYGTW KLSGLPKHRVIGSGCNLDSARF RYLMAEKLGIHPSSCHGWILGE HGDSSVAVWSGVNVAGVSLQE LNPEMGTDNDSENWKEVHKM VVESAYEVIKLGKGTNWAIGLS VADLIESMLKNLSRIHPVSTMV KMGYGIENEVFLSLPCILNARG LTSVINQKLKDDEVAQLKKS ADTLWDIQKDLKDL
18892	49260	C	19001	462	728	
18893	49261	A	19002	1	1033	MSGSLMFLPKADMPAPMLVQ PAERFDSVWVWAGPEQLHSNQL PGDADALLGRNLTKGTRRLC TEEQVKIPQPEPGPPQKLCVLSA AGGQACLVLTFPRWTVWEEPP PPGLVGVKACARWWGKGEPD RKAPAPPPPPGTEKVDQTSEVE RGTLIQRPPAPALPGWVRKTGR P/PPPA/TGRLQQVPLLGAQTQPE /PPGRGV/PPGVSPGLGEDVE/N DGMSLSYLAE*PQATSQRAP*G ENTVALSGRLGRNSSSYTCRPA GERNFHPRGGPSSTAALHLRK MPGTPQCEGRRVPRALPET*M LQGPQTTR*T/PPGPLAFSPSSP TGPQKVKSLGNSSARTILPPKW
18894	49262	A	19003	2	212	
18895	49263	A	19004	1	425	PTRPAAVAEDGGLKKCKISSYC RSQPPARLISGEEHFSSKKCLA WFY EYAGPDEVVGPMEKFC EDIGVEPENCDCTEKLQNKFD LRSQNDISSFKNIYRYAFDFAR DKDQRSLEDIDTAKSMLALLGR TWPLFSVY

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18896	49264	A	19005	229	1028	GASKRTGTPFPGFPAHPAREGR KMPVKKKRKSPGVAAAVAED GGLKKCKJSSYCRSQPPARLISG EEHFSSKKCLAWFYEYAGPDE VVGPEGMEKFCEDIGVEPENII MLVLA WKLEAESMGFFTKEEW VKG\MTSLQCNLHRKGYKPNF DFFAAHS*IDISSFKNIYRYAFDF ARDKDQR\SLDNDTAKS\MLAL LLGEGHGPLFS\VFYQVPGGQS KYR\VMNKD\QWYNVSEFSRT\V HADLSNYDEDG\A WPVLLDEF VEWQKVRQTS
18897	49265	A	19006	3	373	
18898	49266	A	19007	3	418	GRAGSRK WLLLTGSLASTSPSL LSGQGPWAPLQRAMKPPGGES SNLF\GFPEEATPSSRPNRMSSNI FGPTEEPQNILKRTNPPGV*GSG IFDESTPVQTRQHLNPPG\GKTS DIFGSPVTATSLAHPNPKPKDH VFLM
18899	49267	A	19008	1	684	
18900	49268	A	19009	3	81	
18901	49269	A	19010	1	465	
18902	49270	A	19011	120	344	
18903	49271	A	19012	3	1334	SPQLISSASRP AVRNSRH DATRP VVFQIMSGGSADYNSREHGGPE GMDP\DG VIESNWNEIVDNF/D VTMNLKESLL\ARGIYAYGFKEP SPIQQKA\IIPCIKGY*CGLLKLQ SGTGKTATF/SLISILQPVGRLSF KETQSTSYWAPTRELAAQQIQK VILALGDYMGATCHACIG\GTN VRNEMQKLQAEAPHI\VGTPG RVFDMLNRRYLSPK WIKMFVL DEADEMLSRGFKD\QIYEIFQKL NTSIQVVFASATMPTDVLEVTK KFMRDPIRILVKKEELTLEGIKQ FYINVEREEWKLDTLCDLYETL TITQAVIFLNTRRKVDWLTEKM HARDFTVSALHGDMDQKERDV IMREFRSGSSRVLITDLLARGI DVQQVSLVINYDLPTNRENYIH RIGRGGFRGKGVAINFVTEED KRFLRDIETFYNTTVEEMPMN
18904	49272	A	19013	75	540	

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18905	49273	A	19014	774	1529	RWGERILLTWRKRQLQVPPSAL EAGGSSGLEDVLP LLQQADELH RGDEQ GKREGFQLLL/TQQAW CMEAGRTFLWRLARAYS DMCE LTEEVS EKKSYALDGKEEAEAA LEKGD EE/SLTCHLWYAGALW SAG*AMRASRRRIQELALTFKE HCGQKPFALQP\KTPMAHFLLG RWCYQVSHLSWLEKKTATALL ESPLSATVEDALQSFLKCYREL GKNSEARWWMKLAL ELPDVT KEDLAIQKDLEELEVILRD
18906	49274	A	19015	97	452	GTERRTGKLPALLTPNLVQLRR LLFPGIQT I*VPAQGRGHLLQRP AAA/RPRTSAPPA AAAAAPPQV EARPP*LQPTRQE EAAELQ TAR AGLWELWAGPQSPRDLNSLESI RITCSPTP
18907	49275	A	19016	1299	1800	FWGGRSGTVGYGADM GKFKN NTTNNQS*K*YRNTSRNPDHKD *FLKGMDPKFPKNMHFA*KHN EKGLEKMQDNNMRAEAIKA/L PKPMEVQPRVPKSASRKLD/LA YTAHPKAGKHARAHIATGLRL CWPKAKAKDQTKAQASASAA APASVLAPAQASKGAQAPMKA LE
18908	49276	A	19017	410	1323	RQEGTLIGVFIPAAAAAAAVAA AAAAAAAVAAAAAAAV AAAAAAAVAAAAVAAAAA AV/GTSFSKPHKLMKEHKEKPS KDSREHKSAFKEPSRDHNKSSK ESSKKPKENKPLKEEKIVPKMA FKEPKMSKEPKPDSNLLTITSG QDKKAPSKRPISDSEELSAKK RKSSSEALFKSFSSAPPLILTCS ADKKQIKDKSHVKMGKVKIES ETSEKKKSTLPPFDDIVDPNDSD VEENISSKSDSVPGQSPVTNIFF TSSSTPTILKSYQLD NSDQQGA QEASDKQIEGYFSGEVPA YRQG ELILVASRQ

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18909	49277	A	19018	91	890	GAERLPEGPGKRMVFRFVEV GRVA YVVSFGPHARK/MWVAIV DVF*SEQGLLVE*PCTQVR\RQA \MPFRMQLN*FHPSRFPNSAQ ESMFRQAWQ\ADI\NTK WGSP HDGAKKIEAQRKGKPKDDQIF D\RFK VMEGQKKMREQE*SKE* S*RSFKRAALLEKLSPKKKHLG T*GYCCLLLLLAAAAAAAAAAAA AACCLLACCLKVPSKKRSPAAS KKAPAQKVPAQ\ATG\QKAAP APKAQKGQKAPAQKAPAPKAS GQESISGNHKK
18910	49278	A	19019	280	1249	SLNEGIMYAQPVTNTKEVK\W QKV\LYERQPFSLDKLWWDRRF LGRSSGKNIHAPENTQY\WGCG *FESSV\VIQQLCSVCV\FVVIR\W YMDEGLLAPHWL VGTGLASSL IGYV\FDLIDGGEGRKKSG\QTR WADL*ELP*SFITFTYG\FSPVLK TLTEFCSALTPIYAMSVFMLLR HLIFFDYG\ANAAIVSST\LLVN MAIFAS\VCWASRLP\RS\LFHFI MVA\FAIQIFCPGGPML\QKKLK \ACTP\RS\YVGVT\LLFAFSAVG\ GLLSISAVGA\VLLA\LLMSISC LC\PFYLHFACSLFKENI/HMGP WDEA\ENKEDLSPGSL
18911	49279	A	19020	1	310	
18912	49280	A	19021	2	411	
18913	49281	A	19022	374	1275	VLTRLIRKRERRKAQSQRRERCR CVLAKDFLAGGVTAISKMAV APTE/RVKLLLQVQSASKQITAD KQYTGVDVDCMVRIPKE/QGVLS LWH\GIQFWHKFAGSLASGGAP GATSLCFVYPL\DFARTLAAD VGKAGAEREFRGLG*PAGLRIY KSDGK/LRGLYQGFNVSVQGIH YRAAYFGIYD\TAKG\MLPDPQ NTHIVISWMIAQTVTAVARVDF PIPFDTVRRRNE*MQSRAPKEL TIHVHQARFDCWAEGLLRDEG G\KAFFKG\AWVPMFLRGHGVG AFCALSLYGWKSKEGTHKLIS
18914	49282	A	19023	461	705	TERKKKGILPGNGNGFMSLRRT IRVWRNTPNYLGTVNAVSP\RQD *IGKKGVQCQRKQAGPCPPSNIQ GILEWRKHRISETKP
18915	49283	A	19024	2	408	

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18916	49284	A	19025	1	885	MTQHAGKRDSSELPVIVQDTET VPSVMDGKEYQAGRFARGRLRL QCFRRRRRRRRTRRRRRKEEEEE EEEEEEEEEEEEVEEEGMKKKEE EGRRRKKKKKKKAEEEEKKK KEEEEKKRRRREEPPRPRNDDD ARRRRKEEEEGRRRRSM/LGKRD SELPVIVQDTETVPSVMDGKEY QAGRFARGRLRLQCFRRRRRRR RTRRRRRKEEEEEEEEEEEEEEE VEEEGMKKKEEGRRRKKKKK KKAEEEEKKKKKEEEEKKRRR REEPPRPRNDDAARRRRKEEEE GRRRSMKKEEEEEEEEEEEEEEE EEEEEEEEKKRRIGPASKMM GGFEELRRGLNVGPTMAIFFLQ SAALAPAILYFCPSLKSNIKCN FQFLMFCQLLGRVTIPFLVSQRS RIEVGRHSLSTLNAETAHEL YLGRTEPDECCKTAGLGTGLDLK
18917	49285	A	19026	1	378	
18918	49286	A	19027	36	3415	ESAANAQVLAAPSPCSPFAFTL SKVNMSLKNPRVNTSALQKIA ADMSNIIENLDTRELHFEGEEV DYDVSPSPDKIQEVYIPFSAIYN TQGFKEFNIQTYLSGCPIKAQVL EVERFTSTTRVPSINLYTIELTH GEFKWQVKRKFKHFQEFHREL LKYKAFIRIPIPTRRHTFRRQNV REEPREMPSLPRSSNMIREEQF LGRRKQLEDYLTILKMPMYR NYHATTEFLDISQLSFIHDLGPK GIEGMIMKR
18919	49287	B	19028	37	147	
18920	49288	B	19029	10	264	

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18921	49289	A	19030	3	1255	HASGGRAANMAADRGA VQQQ SQDMMVEVDRRVESEESGDEEG KKHSSGIVADLSEQLKDGEEP GVEEDPEEEHEL PVD METINLAD RDAEDF\DLNHYRIGKIEGFVL EES*RLSCLRQNLIKCL\ENLGR ELPESFRELDLYDNQIKK IENLE ALTELEILDISFNLLRNIEGV DK LTRLKKLFLVNNKISKIENL\SN LHQLARMLGAGDLNRIRGQFSK YPTTLATNL\ESWFLGKKTKITN FQNPGCASP NLTVLSMQSNRLT KIEGLQN\LVNRELYFSHNGIE VIEGLENN\NKL TMLDIASNRIK KI*KISAHLTEL\QEFWDGTTIPL KSWSDLDELEGEPGALEDSVP WGGNPLARRTPKYRRK\VMLA\ LPSVRQDRCPRSVRFLKSFLGSL MWSLSSEELPSHG VFNPCCS
18922	49290	A	19031	138	564	YREVMVSES*ETPAGARGRPYY FSAPGTAP\PAINVHPPPSLSAT PHPPQPQPPPHQHNAKARVAT IRTKRTSNCRJRSRKVRKSPPEK WVGFNRRPKASCPSPPGAARV DVGGETERREQAAAPGEMGK WARPGE EYFHS
18923	49291	A	19032	1404	1586	ENESRFSDRNQASAGLGYLSDS L*QWIVGN GHATDLWQNCSTS SSGNVHHCFSSSPNGSG
18924	49292	A	19033	187	701	AELAARM LLLLLSIIVLHVAAL VLLFVSTIVSQWIVGN GHATDL WQNCSTSSSGNVHHCFSSSPNE WLQSCSRGTMDPVDSSFSILSL FLFFCQLFTLTKGG\RFYITGIFQ ILAGLCVMSAAAIYTVRHPEW\ NLNSGY\ S*RFA* \LAWVAFPL\ ALLSGVIYVILRKRE
18925	49293	A	19034	1	493	
18926	49294	A	19035	105	307	
18927	49295	A	19036	32	302	
18928	49296	B	19037	119	641	
18929	49297	A	19038	496	653	
18930	49298	C	19039	568	747	
18931	49299	A	19040	522	656	ESSQSHGKNFYMGKRIKLSLY WNVWRMLNSKSETTNCPLIRH RLSKRVGAPFLPAVLVLTKITIY QT*KFQIRNHKLPSNKTSAI

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18932	49300	A	19041	111	277	RHVVA VVLGDVGRSPRMQYH ALSLAMHGF SVTLLGFCNSKPH DELLQNNRIQIVGLTELQSLAV GPRVFQYGVKVV LQAMYLLW KLMWREPGAYIFLQNPPLPSI AVCWFVGC LCGSKLVIDWHNY GYSIMGLVHGPNHPLVLLAKW YEKFFGRLSHLNL CVTNAMRE DLADNWHIRAVTVYDKPASFF KETPLDARTHRLFTKL TNMHSPF RARSEPEDP VTERSATERDAG SGLVTRLRERPALLV SST\SWTE DEDFSILLAALES RV*TTDS/SIG HNLP SLVCVITGKGPPREYYSR LIHQKH FQHIQVCTPWLEADY PR/ILGSVD LGVCLHTSCSGLDL PMKV VDMFGCCLPVCAVNFK WQEQNP NLSGDSFTDPPLRRKQ CRASCPQ*GPAPGLHEL VKHEE NGLVFEDSEELAAQLQVLF SNF PDPAGKLNQFRKNLRESQQLR WD*SWGSATPNPMMSSCRTTE
18933	49301	B	19042	110	2294	
18934	49302	B	19043	81	1538	
18935	49303	A	19044	21	1158	AVVAALPTSSSSRHSLTQKPGS RRLRIESLLPSSCEIFLIFS YIFR LCEKPYHQTRSASNV TNKTDPR SMNS\RVFIGNLNTLV VVKKSDV EAI FSK\YGK\VGCSVHKGLCLS VQVMLMRRNAPGLL*QGE\DG RMI\ALGQVLDINLAAEPK\VN\ REKSSVKRSAAEMYG/SQ*QNT LLRPLYFSSSF DLDYDFQRDYY DRMYSYPARVPPPPPIARAVVP SKRQRVSGNTS\ RSGPRGFNSKE WNSGVSSKFWKR*KGDDLQ\AI KEELT\QINQK\ VDSLLENLEKIE KATGANKQLEMK\ND\KSEEEQ SSSSREGKMRTNVKDG V*GGV PDDSAEGGGPTWMNDDNVKS GGMTSWEL\KDDEKEAEE\GE DD\RD\ SANGGG
18936	49304	B	19045	93	303	
18937	49305	A	19046	1	246	
18938	49306	B	19047	123	487	

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18939	49307	A	19048	584	1664	SGLFLFLFFYSEIFLIFSIFRLCE KPYHQTRSASNVNTKTDPRSM NSRVFIGNLNTLVVKKSDVEA IFSK\YGKIVGICSCFIKGFAPFK *C**EEMPRACCSGRRVGRIDLL GQVLDI*PGLAEPK\VNPREKPG VETILPAGDVRGQ*QNTLLRPL YFSSSFDLDYDFQRDYDRMY SYPARVPPPPPIARAVVPSKRQR VSGNTSRRGK\SGFNSKEWNSG VSSKFWRK*KGDDLQAIKEEL TQINQK\VDSLENLEKIEKAT GANKQLEMK\NDK\SEEEQSSSS REGKMRTNVKDG*GGVPDDS AEEGGPTWMNDDNVKSGGMT SWEL\KDD\KEAEE\GEDDKR QGPMARND
18940	49308	A	19049	158	1001	KRLGSSAISMSKYKLIMLR\HGE GAWNKENRFCSWVDQ\KLNSE GMEEARNCGKQLKALNFEFDL VFTSVLNRAIPTAR\NL\EELGQ EWVPVESSWRLNERHYGAL\I GLNREQ\MA\LNHGEVEQVRL\W RRSYNVTP\PIIE\SHPY\YQEIY NRPGGIKVC\DVPLADQLPRSES\ LKDV\ERFLPYWNERIAPEV\I RG\KTIL\IGK*AVGALLKHL GRYPSGL\INIYSFLLGVPILL VELD\ENLRAVGPH\QFLGDQEA\I QAAIKKVEDQGKVKQAKK
18941	49309	A	19050	1	521	SASWVG\AMASRVLSAYVSR PARFAP*PRVRMLAVARHLST ALCSEGTQTRLGTLQPALVLA\ QVPW*ELHMLCRQYSDMP/PRL TLEGIQ\DRVRLA*LKTLSDKVD PREAFQ*ILHFMKDLGLDSLDP KWKI\MALED\EFGFEIP\DI\DA EKLMT\PPRKLVDLHCQDKKD
18942	49310	A	19051	1	516	IRAL\MIWRRALLAGTRLVWS RSGSAGWLDRAAGLR\DCG\TA ASGMESNTSSLENLATAPVNQ I\QETISDNCVVIFSKTSCSYCTM AKK\LFHDM\NVN\YKVVELDL LEYGM\QFQDASLQK*LVERTV PRIFVNGTFIGGATDTHRLHKE GKLLPLVHQCYLKK\SKRKEFQ
18943	49311	A	19052	825	1080	KRKIHQNFHKL\SLKKAIEKDYS ESGSSVNQYKRIRPTDNVVIKQ Y\WPGAVAHTCNSSTS\VGQGR WIT*GQEFETSLANVVKPHLY
18944	49312	A	19053	80	429	

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18945	49313	A	19054	3	752	FKNAVGNLAMEGGGGIPLET KEESQSRHVLPAFSEVNSLQKS NWGFLTGLVGGTLVAVYAVA TPFVTPALRKVCLPFVPATTK\ QIENVVKMLRCRRRDPLWDIGS GGRDGIVHRRRLRRKGFTAVGF MEFKPMG*FWVFPY\RAWRE GVHGSAKFYISDLWKVTFQSYS NVVIFGVPQMMMLQLEKKLERE LEDDARVIACRFPPHWPDPHV TGKGIDTVWAYDASTFRGREK RPCTSMHFQLPIQA
18946	49314	A	19055	157	829	TWKGKDPKKPRGKMSSYAFFV QTCRGG\HKKKHPDASVNFSEF SKKCSERWKTMSA*R/EKGKFE DMAKA\DKARYEREMKTYIPP QRGRQKRKFKDSQLHPRRPPSG LLSSSCSEYRPKIK\GEHP\GL\SI GDVAKKLGRDVG\NTAAD\DK QP\YEKK\AAKLKEKYEKDIA\A YRA\KGKPDAAKGVVKAEEKS KKKKEEEDEEDEDEEEEEDE EDEEDEEEDDG
18947	49315	A	19056	85	267	GHLSHA WCGTYKPWPSPKEQS RAWKKG DGLFP PPP/PLFPTGLK VRGRESF*SVELIRPQG
18948	49316	A	19057	1	1158	
18949	49317	A	19058	452	517	
18950	49318	A	19059	93	1069	YEGVTTSRLPELPRGCLVLQEQ ELVQMSGMEATVTIPIWQNK HGC/SLRSVVRIGTNLPLKPCA RASFETLPNISDLCLKRCAPSSL PWLAWLGFLAE*KGSQKAR\ RSDTRPLRHTWKPSLIVMQRN ASVPNLRGSEERLLALKKPA/L ASPKAALLSCRTS*ATLRTKICK DSGKLMQLRLH*RQISYLQEVQ MSLLPLPCFGSSFHSTTSFCH**/ PSPRRQRWRSLSFHQSPCFVLP ALNVANQNTKLPAVRLKRMTA SLCPRPAALQDMMGILKGLFTG MKQSQDLNRSLLKEEDPAVLIS EVLRRKFALKEEDISRKGN

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18951	49319	A	19060	162	1410	GQASCPPPALGQQTASSYTVQ IQTYAPSSPHPRQGGQSSDPR GLRGAIPRGRQGGGV*QQGPRC RPPSSPVLPHIPQLSCCGHDGRD PEEGLGILELTLHHAHPWSPN SW*KDSIPSPHGEFPAHSEPHSR DQTSPMATTKEVQPLPQASLS QPSLGIGCLVDWLRQLRTTQGS /PQDAAQDSTWERP*DAS/GKP WLL*PGVPTPGPPCQAKERKPP FMGNCPL*SRVPWPSRLPEEL/P AMPLAPPVAGEAAGPASSHQSL SPSQDPTPLPGADRREKERGGE EGSSWPQTPLRTTHTTSPPEKQ QQIESPPIRLSSFKTGFHLASSGH SYAIKPNSTKA EKVGQVRVPR SHTIREQRQGRPGEHHRTER DAKPQGEEDHQATVVSQKLG DRRLIKKQRTSVLSATAES
18952	49320	A	19061	1	340	GSVSGTTLNLGFWSSPGTSP LEPPCPWLDSHIFVPFWKDVA FGEGVCLPPGAPQPRRICPRRG QQPEFQQEEPETIPERTPADPGV LPPAFPGICLPRRLRAPDPGPA A*AVPPVADA*GSVSGTTLNQ LGFWSSPGTSPLEPPCPWLDSHI FPVPFWKDVAFGEGVCLPPGAP QPRRICPRRGQQPEFQQEEPETI PERTPADPGVLPPAFPGICLPRR LRAPDPGPAA
18953	49321	A	19062	3	396	IPLASLHLALPGHQRGPPGRLP SCSSQGTVPPPRAGPYQAGCPG TAPAPAPASAPWSAPQASATG GTAHAAGPGSGGARSLPPARA HPPARCWQGRPLRSLLL*PSSVP ETGGPEKARLVKALSPNTAP
18954	49322	A	19063	563	1269	LEESTGRITHFKATLHCTMSNN LAWGGTKWLQESRVFFHIRRLP SDASAGPGCVYRVVPDGGSQG RPQGAPP*AAQA/GTPRGRPPAP GAPSALLPPPSGTSGVPGGLQ QRRPPTGQEDSPTEPGFWKPR WRSHLATSLATRCTMQGEPAR AHPPGGRGPAASEERHQRGPPP GGCFAALRYCATPRPDLSGRCP GTAPAPAPASAPWTRLRHQPL AAQLMQPGQVWWGPAASW

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18955	49323	A	19064	1	1158	MELKAKARELREECRSLRSRCD QLEERVSVMENEMNEMKREG KFREKRIKRNEQSLQEIWDYVK RPNLHLIGVPESDGENGTLEN TLQDIIQENFPNLARQANIQIEI QRTQPQRYSSRRATPRHIIVRITK VEMKEKMLRAAREKGRVPHK GKPIRLTADLSSETLQARREWG PIFNILKRIFSPQRGGTGGRM VKLTAEIEQAAQYTSAVRDRE LDLRGYKIPVIENLGATLDQFD AIDFSDNEIRKLDGFLLRRLKT LLVN/NNRIC/RVLDQKVK/LK ERQEAEMFKGKRGAKLAKDI ARRSKTFNPGAGLPTDKKKGG PSPGDVEAIKNAIANASTLAEV ERLKGLLQSGQIPGRERRLGPT DDGEEEMEEDTVTNGS
18956	49324	A	19065	2	431	RKLDGFLLRRLKTLLVNNNRI CRIGEGLDQALPCLTELILTNS LVELGDLPLASLKSILTYLSILR NPVTNKKHYRLYVIYKVPQVR VLDQKVKLKFNPAGLPTDK KKGGPSPGDVEAIKNAIANAST LAEVERLKGLL
18957	49325	A	19066	92	303	NCFLVFSPARSTVGEFASMSSE ECI*MHVVFPLTLCVVSLEYER QEAEMFKGKRGAKLAKDIAR RSKT
18958	49326	A	19067	208	293	LLLLWWFPLGPTDDGEEEMEE\ DTVNGS
18959	49327	A	19068	22	904	ARNPWSTHASGWREATGFQPR GGTAGCTMGKLTAE\IEQAAQ YTNAVRDRELDLRGYKIPVIEN LGATLDQFDAIDFSDNEIRKLD GFLLRRLKTLLVDTTR\CGIGE GLDQA\LPCLTELILTNSLVEL GDLPLASLKSVA\YLTYL RNP VTHKKHYRLYAIYKAPHVRVL DFQNVKLKIERQKAEKMSK GK RGAQLAKDIA\RRSKTF*FPGA GLPN*PKRKGGP/SLPGDVEAIQ ECP*QNAFNSGLKVERLKGVCC KSG\QIPGRERRSGAPTDDGEE MEEDTSHQTGS
18960	49328	A	19069	1	395	AINYNEKIYELRVMETKPDKA VSIIECDMNVD\FDAP/LGYKEPE RQVQHEESTEGEADHSGYAGE/ LGFRAFSGSGNRLDGKKKGVE PSPSPIKPGDIKRGIPNYEFKLG\ EAGGRFVAFSGEGQSLRKKGR

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18961	49329	A	19070	1	1108	
18962	49330	A	19071	353	693	GSLFLVKRREPER/QVQHEELTE GEADHSGYAGELGFRAFSGSG NRLDGKKESPSPIKPGDIKRGIP NHEFKLGKTPFIRNACPLVKKF EEDEAGGRFVAFSGEGQSLSKK
18963	49331	A	19072	2	1112	RLGAAAAAAAAAGRAVGGVSSL HCPERSGVCQVVSIMFSNMF HPIPRVFQNRSTQYRCFSLSM LAGPNDR/SSIGEKEGKIIMPLG PGTKLSRL*HYRIPMLFK\LTNK NSGPHGRHCGVAGSLWA**GA SAYLPHWDDGRITYSLGRKAA WVQGGRSVNLSSGPLISNFQPQ SPADFL\DITNPKAVFEN\LRNF ALS*PPGDVIAINYNEKILRNCV VMETQTPTRPVSHH*SVNH*TV EL*LLPPGATKEPRKDQVQP*G VRTEGESRPHSG\YAWKSLGFP RFSRGS\NR\LDGKKKGVEPSP\ SPIKP\GDIKRGIP\NYEFKLKIT F\VRNSRPLVKKVEEDEAGGR FVAFSGEGQSLRKKGRKP
18964	49332	A	19073	1	415	SGGGRNRSATGSWVGTMAGIT TIEAVKRKIQVLQQQADDAEER AERLQREVEGERRARERGMK VIENRALKDEEKMEQLQELKE AKHIAEEADRKYEEVARKLVII EGDLERTEEPSLSWQESKCS\EL EEELKNVT
18965	49333	A	19074	1	421	
18966	49334	A	19075	3	388	
18967	49335	A	19076	1	1332	
18968	49336	A	19077	49	483	
18969	49337	A	19078	227	1030	AVSWVGTMAGITTIEAVKRKIQ VLQQQADDAEERA\ERSQREFR EERRARE\QA\EA EVASLNRRIQ LVEEEL\DRAQERLGHCPCCKL *RS*KKLADESERRY*RLFENR ALKRLKEKIGTSREIPTSKPKH HCRKEAD\RYEEV\ARKLGDH LKEDLERTEERA\ELAESRC*EI DEQIRLIDQNLQCLSAEDKYS QKEDKWEEEMKILTDNLKEAE THAELAERSVAKLEKTIDDLED KLKCTKEEHLCTQRMLDQTL DLNEM
18970	49338	A	19079	50	864	
18971	49339	A	19080	1	1014	

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18972	49340	A	19081	1	1650	MGFHHVQGAALELLTSGFSQT QELQKFLFLLFLLVYVTTIVGN LLIMVTVTFDCRLHTPMYFLLR NLALIDLCYSTVTSPKMLVDFL HETKTISYQGCMAQIFFHLLG GGTVFFLSVMA YDRYIAISQPL RYVTIMNTQLCVGLVVA WV GGFVHSIVQLALILPLPFCGPNIL DNFYCDVPQVRLACTDTSLE FLMISNSGLLVIIWFLLLISYTV ILVMLRSHSGKARRKAASCTT HIIIVSMIFIPCIYIYWPFTPFL MDKAVSISYTVMTPLNPMIY TLRNQDMKAAMRRLGKCLKG PAVAVGPGPGPGDAEAAAEEER RVKVSSLPYSVDALVSDKKPPK EASPVPAKSASSGATLRLLLLP GHGAREAHSPGLIKPFETASV KWENS\QDGAA WMQEP*\YSP PPRHK\HK TNP KPRTAFTTSQLL ALEGKLLQKQYLSIAEGADFSS SPNLTETQVKILFQNRRAKTR LQESELEKLMMAAKPMLPSSFS LPFPISPLQAASIYAASYPFHRP VLPIPPVGLYATPVGYGMYHLS
18973	49341	B	19082	62	440	
18974	49342	A	19083	1	902	METEALMPGLGVAVAGA QVTL GFLALETQLPFTGHKRILRLFFS SPRDPHPVPSKGLKRKWGARR GRTFALREAEPQRLPSLSRAFG TLARPYARLVRPGNPVVPFLA GSAEAAARAAATCERQARTCPM PGVTVKDVNQQEFVRALAAFL KKS*\VGKLVPEWVDIVKLA KHKELAP\YDENWFY\TRAAS AQAPCTIRGGAG\VGSM TKIYG GRQRN\GVMP\SHFSIRGSKS\VA RRVPPKPWRG*KMVEKGTKNC GPQNLTSPSRDKRDFGTEFAGQV AAANKEALEQIHCFGLIKLAHS
18975	49343	A	19084	1	673	AGPDAEASERVPEGPEAPGAGP SRPLEPRPRASGRPGHGRCLGV TVK\DV\NQQEV RHELWAAFLS KSLR/LRVS*TVPEWLDTVQAG QAQKSLLPYDE\NWFYHAELAS TA\RH\LYHPGSALGVGSM TKIY GGTSDETASMPKPLSARGFQEI WARRV\LQSPGRGLKMGGKRD QELRAAKLDTFKGQKRFWDR RRNRLAVAYKEALEQTMAGV NKL PQFVKKKKK

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18976	49344	A	19085	1	427	HPVRRFFVHRGPH/VDFSLEVVS QWYELVVFTASMEIYGSVAD KLDNSRSILKRRYYRQHCTLEL GSYIKDLSVVHSDLSSIVILDNS PGAYRSHPDNAIPIKSWFSDPSD TALLNLLPMLDALRFTADVRSV LSRNLHQHRL
18977	49345	A	19086	2	832	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHSHHDGVL RPTVRPGT PPDFILKVVIDKHPVRRFFVHKRP HVDFFLAEVVSQWYELVVFTA SMEIYG\SAVGRLNWDNSRSIL *GGRY\YRQHCTLELGSYIKDP LLWFHSDLS\GIVIL\DNSPGAYR SHPGYGGRIDNAIPIKSWSVTP ANTAILNLLPMLDALRFTADVR SVLSRNLHQHRLW
18978	49346	C	19087	69	206	
18979	49347	A	19088	312	438	
18980	49348	A	19089	635	826	QWISLWKCYKPEESGGQYLIFL KKSIFNDEFHVKN*AS*GKEK* TPLQTSNC*GILSPPGLP
18981	49349	C	19090	1	390	
18982	49350	A	19091	336	551	ARPLGSLASAPFPAPM*NVYPT GP*\YNADCPNVTAPVCASNGH TFQNECFFCVEQREFHYRIKFE KYGKCD
18983	49351	A	19092	76	309	KGRFVIALTFTT*HSNLEKSCSK ICKIK\NKS LVCKHQLAKSIQSPS **WNGMNN*FTTLFICCHNTEK TFIHCGKRP
18984	49352	A	19093	181	447	NKYQTDNIKLSNDLTIGHQTG NTTAHC/RYIMLFRSFQQMAITT ILS*YRKNIYPLWKETLKR MWQ RHREKVGSEK VNDIKILFHHW
18985	49353	B	19094	1	639	
18986	49354	A	19095	1	160	NLHSQMLWNQRIR*LT3V*LLEL LCKNPNRVATRDQLLCLSGHL GMGRILELGG
18987	49355	A	19096	2	456	YKNTITDYYEHL YAHKLENLEE MNKRRASTICTETIPKKLRRRD SSLTHSMRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGALW LPHFQTESDPGSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSCITST

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18988	49356	A	19097	138	1193	LCFFGQHAPIYCSLRHSLLSYTR PASLICCLPGSHRYLEFVLLLLK HHRLHEDLNHCPIGSRSGRDVR SQTTEQHVIAMPFPLRKLEPL HSGLYSHSCCSRYLAGWLALA TGGAARSPPAISILQPQEPSVTPS DTQRACGRSTEAFESKEQKASV RVETTVSFSCSIKVDGGLLEPKR ADTGWHGHHC RPASITPAGWV PARYLLYVFFSRQCVLSMVCGP QYTRGEIPGAVLKEECLPSLLT GRFDLSGRARRLSVDVKPQDRS RGPSECTIFRAGVPEGTRGV LW LPHFQTESDPSKPAITLLVIHP DELQIYVRTKTC/T/RMFIAALFI IAKT*KQPRYPSANTLLL
18989	49357	A	19098	3	247	
18990	49358	A	19099	1	1048	MQLKPMEINPEVSARCTATTRA RGRGRGSRVADRFGAFFFAFA FQMLNKVLS\RLGVAGQWRFV DV\LGLEESLGSVPAPA\CALP ACLFPLTAQHENFRKKQIEEL KGQEVSPKVYFMKQTIGNSCG TIGLIHAVAQ*SKTNLGFEDGS VL\KQFLSETKKNVPLKDRAKC FIEKNEAIQAA\HECRGTRKGQ CRVDDK\VNHFYSG*PTVDGP PSMNLDGARMPPFRGPMAPS\Q GDTLLEGRFPRSCRRISPREQR RSPASSARGFSCKGSLNALWGG TWLISPLSPQHENILPPHASLKC FSTCETQAVLLFCQTRPSPQPHP RHLSTSRVHSCPLGHCGVSFRW
18991	49359	A	19100	57	450	VGDCLTSRGMSWVQATLLAR/ ALCRAWGGT/CRGALTGTSISQ VURLAP\RGLHCSA/ASVSSEQS LVPSPEPRQR/PPGGERDKASF LQTVQKFADTSVVD SGHIDFIY LALRKMREYGVERDLAVYNQL LNIFP
18992	49360	B	19101	307	390	

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18993	49361	A	19102	431	1267	SGTRTTSTAARTSRTWRS*TPLL ACTPRPCGSAKLATATSRTCIRP *SPSATQTLTVTKVPLPKDSTG AADPPQPHIV/GAQGMVYSTPG IQSPDQQAALARHNPARPVFVE GPFSLWLRNKCVYYHILRADLL PPEEREVEETPEEWNLYYPMQL DLEYVRSGWDNYEFDINEGKE QHVTI/LCSSGEC*ILRRRQNV*R LLDW/LAGKALTSPTCAPKITC VPLALPTYCSGQNLNSSCSMT SVSDHLSPVPTLLSTISKAHGTP PPNTKVVTKVTVRQ
18994	49362	B	19103	49	691	
18995	49363	A	19104	89	95	VGDCLTSRGMSSWVQATLLARG LCRAWGGTCGAAL/SQEPPLSR SLASLPRGLHCSAAHSSEQSL VPSPPEPRQRAHQGSWCPLR/VP VLGQGAGLGERGQGRAFL/LD GCRNLRTTSVRKRGPH/VDLFY LALRKMREYGVVERG/DLAVYN QLLNIFPKEVFRPNIIQRIHVHY PRQQECGIAVLEQMENHGVMP NKETEFLLIQIFGRKSYPMCLKLV RLKLWFPFRFMNVNPFVPRDLP QDPVELAMFGLRHMEPDLSAR VTIYQVPLPKDSTGASKIPPKPH IVGI/QRSPDQARPPLARHNPSR PVFVEGPFSLWLRNKVCV/YY HILRADLLPPEERVRA*SKACV GAGEWAGTTLRVHGRGWRRE TERALASDPACTPHLGVEEVEET PEEWNLYYPMQLDLEYVRSGW DNYEFDINEVEEGPVFAMCMA GAHDQATMAKWIQGLQETNP TLAQIPRGLSAFAGSTRKLQTS SAGLEEPP/HCPRTTKEEDDNLQ RQSRAQS*SPCAGIRAQQQDRA GLESAAGRVS

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18996	49364	A	19105	1	1199	EFGALRRTRLGSSFPRRRDSSA MESYDVIANQPVIDNGSGVIK AGFAGDQIPKYCFPNYVGRPKH VRVMAGALEGDIFIGPKAEEHR GLLSIRYPMEHGIVKDWNDME RIWQYVYSKDQLQTFSEHPVL LTEAPLNPRKNRERAAEVFFET FNVPALFISMQAVLSLYATGRT TGVVLDSGDGVTHAVPIYEGFA MPHSIMRIDIAGRDVSRLRLYL RKEGYDFHSSEFEIVKAIKERA CYLASINPQKDETEKAQYYL PDGASTIETGPSRFRAPELLFRPD LIGEESEGIHEVLVFAIQKSDMD LRRTLFSNIVLSGGSTLFKGF RLLC*VKKLAPKDGRIRISAPQ ERLYSTWIGGSILASLDTFKKM WVSKKEYEEDGARSIRKTF
18997	49365	A	19106	1	3288	MPSGGDQSPPPPPPPAAAASD EEEEDDGEAEDAAPPAESPTPQI QQRFDLCSRLNMDEAARAEA WDSYRSMSESYTL/EGSGLWLP RGLFGHPGHCTGLLLLLRSGCV RSQPSDRACR*EK\CHSSHIEFF NKMKKWEDMANLPPHFRERTE RLERNFTVSAVIFKKYEPFQDI FKYPQEEQPRQQRGRKQRRQP CTVSEIFHFCWVLFYAKGNFP MISDDLNSYHLLLCALDLVY GNALQCSNRKELV
18998	49366	A	19107	56	3552	GPAAQGCAMPSSGGDQSPPPPP PPAAAASDEEEEDDGEAEDAAP \PAESPTPQIQQRFDLCSRLNM DEAARAEAWDSYRSMSESYTL EGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSE QSLIEFFNKMKKWEDMANLPP HFRERTERLERNFTVSAVIFKK YEPFQDIFKYPQEEQPRQQRGR KQRRQPCTVS*NFSIFCWVLFIC AKGNFPH*LSDDLNSYHLLLG ALDLVYGNALQCS

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18999	49367	A	19108	1	1193	GRRRRFWWRKRIGGGGGGMA MPAEAPWMASSFNGFLSLPPG WLLLPPPSDRNPPLQPSSRPPLC VRMWMNAFTPLISLFFWASLV SSGARRLHPIQPQPCREQAPMP APGAARSAVAASMSDCTVAGP CTGSHTPCHSTSDSQSP/CGGVG SSLVV*AERSCAQCRMSPRKGH \CCCCCCCCCCCC/SCCCYCHYC CCYCCCCCCCCCCCCCCCCCCC CCCCCCCCCCCCCYCCRCYCCC CCYCCCCCCCCRCCCCCCCCRC CC*HYCCCCCCCCF/GCCCCRYC CCCRYRRCYCFCCCCCCCICY CCC*RTAHAWPSMNKSQCVLP/ CICKVPLGRLAVTTGCPGFG*G GCWEDCMFPAKGPSIRLEQWFS TTAILLPSGPGDFWQYLGTLV VTTREEVLLLESGG
19000	49368	A	19109	1	762	GTRDATAEENRVLLAMVNPTV FFDIAVDGEPLGRVSFEVRGLD TKK*LLI*SIKLC*QIGGSSIFITS D*KNSCLPLIVQQCLLFLRILPL FADRVPKASQKIFVALSTGEKG FWL*GVPCFHRLFPAGFYVSRGG DFHTAINGTG\GKSILWGENLK DENFILKHTG\PG\LSMANAGP\N NTNGSPVFLTSTAKT\EWLDG K\HVVF\K\KVEGMNIVEAMER SLGPRMGKTSNKFTIADCGQL RIKFDLVFYL
19001	49369	A	19110	95	240	LHSEITVCL*GSEHHFFENGTYI PHRSCHDPLEARAEDFL
19002	49370	A	19111	1	1644	
19003	49371	A	19112	237	632	AIGFPSYSSMQLVNIFGLNLFSI ISSSFRHQG*HS*ELPYPLEPGA EDFLR*GP\LAGHGHTGSQPFFC RVSEA/CGSHLVNSSRAALKRW AGV*RKIWPRGSPETPRNLKDL SVLEYENTPDTSGKKALED

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19004	49372	A	19113	274	2704	GISVLHGCGYRFQPRGMAAPGP FSEKPVPGCDAGDLQTPALSSW TQTFIISHEQGIKFLNQRWSCWS KERNHGHCRVRGHVTAQAQCDL FGNGLKHNLDLHIHDRNDASK NVKKSTNYGKMSFYTYCECTP TGEKLWDHNQHRKIIGYKPASS QDQKIYSGEKSYECAEFGKSFT WKSQFKVHLKVPTGEKLYVCI ECGRAFVQKPEFITHQKTHMRE KPYKCNECGKSFFQVSSLFRHH RIHTGEKLYECSECGKGFYPNS DLSIHEKIHTGERHHECTDCGK AFTQKSTLKIHQKIHTGERSYIC IECGQAFIQKTQLIAHRRHSGE KPYECNCGKSFISKSQLQVHQ RVHTRVKPYICTEYGVFSNNS NLITHEKIQSREKSSICTECGKA FTYRSELIIHQRIHTGEKPYECS DCGRAFTQKSALT VHQRIHTGE KSYICMKCGLAFIRKAHLITHQI IHTGEKPYKCGHCGKLFTSKSQ LHVHKRIHTGEKPYMCNKCGK AFTNRSNLITHQKTHTGEEKIFI CSKCGKAFTQRSDLITHQRIHT GEKPYECNTCGKAFTQKSNLNI HQKIHTGERQYECHECGKAFN QKSILIVHQKIHTGEKPYVCTEC GRAFIRKSNFITHQRIHTGEKPY ECSDCGKSFTSKSQMTIEH*AV HSG*KPYVCAECGKA FSGRSN LSKHQKTHTGEPYICSECGKT
19005	49373	A	19114	3	180	
19006	49374	A	19115	95	433	PVLRTHPGPQSLPRVPGVPCGG LLEPLSRAEVSPRLGLRRDLLG GMAPSGSSTVFLLALTIHASTW ALTPHYLT KHDVERLKASLDR PFTNLESAFYIVGLSSLGAQVP
19007	49375	A	19116	196	706	ISISNETKDLLLA VSEDSSVTQI YHAVAALSGFGLPLASQEALSA LTARLSKEETVLATVQALQTAS HLSQQADLR SIVEEIEDLVAR\A DELGGVYLQFAEEGLAETTALFV\A AATYKLMDHVGTEPSIKEDQV\A IQLMNAIFSKKNFE\SLSEAFSV\A ASAAAVLSHNRYP

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19008	49376	A	19117	275	2192	MVVSPQGSSTVFLLALTIIASTW ALTPTHYLTKHDVERLKASLDR PFTKRLCFSWFTTCVTT*H*LFP TV*KACTYIRSKSLPCLPQIAKT CSKTLCLPILS*ISISNETKDLLL AAVSEDSSVTQIYHAVAALSGF GQVREGVSG*NKTCHSLGFYSL PSRTVDSGSCISFLLLLDIQHISV LLWQDLVARLDELGGVYLQFE EGLETSTAVALLPPSQQRKRNSCI SHFFQDQVIQLMNAIFSKKNFE SLSEAFSVASAAAVLSHNRHPR NKILCSCSLCCNK*FFIYFQLQV TNVLSQPLTQATV\KLLFVISM T/RT*VLAKPIVILNRDVFELNF MNVKFYICM*IPEHPPIDLATVF SIFL*LRVKISTDIFSACSQRYTD PL*RLTLYASFRVTYPAKAKGT FIADRDSMLGPGRILKLSDERL YYSSI*TFVRLHNQKTGQEVVF VAEPDNKNVYKFELDTSERKIE FDSANIIY*VSPTSLPLCFYRLSL FF*ADVVINPGIHGCPYWEGHIL KSSWCVFRQHLFREPEKSWHG LCCFPFKF*CLFNLFLPIIQWILT FLNRRASLCFI*LDVMTPLLA MLGLMYVYWTQLNMFQTLKS LAILG\SVTFLA\GNRMLA\QQA
19009	49377	A	19118	3	413	PRKEAPSTFLSQ\NLFTPKQEIQ\ HLFREPEKRPPTV\SNFTTALI LSP\LLLLFALWIRIGAINVSNFT FGLPSTNIFHWG\HAAMLG\LSM YVY*TQAQPCSQTLEVPWPILG QCDRFLAGQSGMLAQRRTAVQE NQHN
19010	49378	A	19119	2	535	GRVDPKAKKEAPAPP*SLKPKA *AFKGPRAVLK\GVHSPQKA GRSRTSTPPFRAGRKTADSR PAPKILRKS RVPGGNKLDHYA VIKFPADH*SASAVKKIEDN\NT L\VFIVD\VLKANKH\QIKQGCE RSLYDI\DVGGQGHWPWRPD\GE KKAYCSTWLLDYDGFGMFAN QNWGSI

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19011	49379	A	19120	159	801	GAAGRRRLPEGEDEASAWR RLARCLMPKKNRIAIYE\LLFKE G\VMVAKKDVHMP\KHPE\LAE VKNVPQPFMVMKGHAGLSSPR G\YVKGTSFA\WRHFLTGTLTQ* GVSQYSPWITLHLAPGRFVPCP PLRPVARPRRMGRP\RPKKVLG GVEATWRGFFHKGVE\DRGYL TRRSACCQLGA\DKKSRGWGL GSSNPNFQFRG\GF\GCGRGQ\PP
19012	49380	A	19121	334	989	EPPAETLPVAARDPTGLSPTYLS SHKHEKFQQVRHFPVLLGYPIA SSGASPEVRQRRRTTFFRFRPGES LCGDMKLLTHNLLSSHVPAGG SLPFSGGMVGRGPVLA*TP/LAL QATEGRVICPVEINPQLRGRVMI P*KWKWS\AFLEAGPDKLAV*I PGARKGPG*GDMRENEEFS*GP WHHLACWEVGSD*EGTL\QVP GNLGRYFSPFKPRGSPNMLAE
19013	49381	C	19122	61	177	
19014	49382	A	19123	4	191	
19015	49383	A	19124	1902	2187	
19016	49384	A	19125	55	340	GELVLKALSAFIRAFRCPAEGS DPVGRAADP\SPPAPRGISQGGG ACGSPFLPGPITESLPLPPGLGSG SELPSTLYLVSGIYGGVRRGPPA RLEA
19017	49385	A	19126	1228	2447	TSQGSSPPAHIGRWSSNHKKGL GSSFSQSCCKAEALVKNAWPPT QA*VSICCFEQDLGRGQQKGKS GGKWQKTAESREAVTECPACY RAARCRAAGDRGLRAEGAAAG HTASPSAYRVRGERGHRDMHS ASARLSHPGETNLMLGLAEPVS TSH*SHPFQRQ*LP*QAGP**EM/ PLPPSARDSSDLCSG\SPSHDLLP LPNTVIFWGPSSPDWQPLPLSP FCVQAAGSPCSPLLQGLEPGGI STSCPPGPAPYIDFGAVSGAGQS AAQRGAHFPAAMAERPSAGTS GSSGISGAIAATVVSVAEGEQ AVKCLAEGSTRQTGQPSRRAPS RGCPAPGAPPGRAAPPQAPPAA PAAGGGRGPPAAPRAPAPRPQP QGAPRPVSPCRGTGAAPPPTLV WGLSSEAE

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19018	49386	A	19127	164	563	CEAALKGDSGGSPWPDEKPKE GVKTENNDHINLKVDGAEMVT VVQFKIK\RH\PL**T*LKAYL* TDRGLSMRQIRFRI*PGNPIN*K QTHLHQLGNGRIEDYNLMCFQ QARPGGVYLKKGTCFFYSKNS VSF
19019	49387	B	19128	166	426	
19020	49388	C	19129	76	285	
19021	49389	A	19130	3	179	
19022	49390	A	19131	93	172	
19023	49391	A	19132	1	2742	
19024	49392	A	19133	1287	2571	ILRQWLLASPEEKTGRPALASG SAETLSWLRAQGREGPRGA*SA VGAHRTRTAPGSDPRCGILPS GRSPSP/PARLFLASVPATI*AM TPSPTRLPAWPPPCR/PDASPE VVRKGGKAGQPRGSPQWRSG AEEIVEVGLLPLTPRALLFPQVP TALPAVYHFLAACEGICPHSCA APSMIELWDFLIQQHQPEKAVA CTTTHIPGLRISALNKHRAWGG TDDDDVAASEMPLGAAGAEPW D/VE*LLPAALKIPTGHTATTSW GAGP*SPQGSCKGSGVSGGAT ADLLAPTAGVGTSTRACGGGT QFMSEGAPGVMNNGSPDWSST QFMSEGAPGVMNNGSPDWSSN LSQPQPMHLLYLTTWFLERPM CCPDTTALTQTLVPVSFSYPVCT SHIRQNPHLHFLRAPSPHYTTA CSFEPQRFLEQQQDLL
19025	49393	A	19134	31	202	ILITYIILINQADFSTP*FMSHLI VSSRILCTEKWNFHFPFH* D*Q QTFCTLQFL
19026	49394	A	19135	410	867	LLTLRRTTPLMSLGFPKIPKMIN RPRQSSPIKLQNSSSLNLLFFQ EDSSTLDSGLERSQGLDSTGGG EDICRVWTAS*SFICLSDPQKVQ IQSAPNRKAWCLVILVVVSHSS TPFSWQKVMKWIKKISFRVFAA GQGLLGYSNPRYSFSF

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19027	49395	A	19136	111	743	VITILTPMLADRTTRRIERPPKKK GTTSLGQRKWLLTQDWPSVYP VA\HPFKPSAVPLPV\RMGYPV KKGRAHGDRRGNELELLKISQFF WILTSCSNLKSTCEALKDFACTG VGQPHWDSGRKKMLKKHFSN WKFGQHLDLCFHQGPSGSGNP RARVVVLKSKAFLV*I*HDHAK KTLITLVGERYCKTPDVLTIKQ NRWPLRSQITIMPVYL
19028	49396	A	19137	305	2291	YLDAEKMGGQKASQQLALKDSK EVPVVCEVVSEAIHVHAAQKLKE YLGFEYPPSKLCPAANTLNEIFL IHFITFCQEKGVDEWLT\TTKMT KHQAFLFGADWIWTFWGSNKQ IKLQLAVQTLQMSSPPVESKP CDLSNPESRVEESSWKKSRFDK LEEFCLNIGEDCLGLFIIFGMPG KPKDIRGVVLDVKSQMVRSH LPGGKAVAQFVLETEDCVFIKE LLRNCLSKKDGLREGGASPGSL RLAAPGPPLTLNAACPLRLAVL AAMAAAALPAWLSLQSRARTL RAFSTAVYSATPVPTPSLRVDD LHLTEIVGMLDSVLTPESSGK YRFISGEVLCRITGCFTGVRVEA KDLFGGCCSNPNVMTWIKVI VEKEVWLYLRYILKALPPRTEK MAVDQDWPSVYPVAAPFKPSA VPLPVRMGYPVK*GVPMKEG NELLLKIPN\FLH\TPVAIKKHCE ALKDFCTEWPAALDSDEKCEK HFPIEDSTDYVSSGPSVRNPRA RVVVLRVKLSSLNLDDHAKKK LIKLVGERYCKTTDVLTIKTDR CPLRRQNYDYAVYLLTVLYHE SWE\TEEWGKK*D*SRHGKSIY GENSSSERKYPGERFSR*KLLR KNMGN*LKKSS/CGTKEIEEYK KSVVSLKNEEENENSISQYKES
19029	49397	A	19138	3	233	
19030	49398	A	19139	1	256	
19031	49399	C	19140	5	114	
19032	49400	A	19141	8	444	TTDKEQ*EL*LLLDTE*GSYTK CHTDSLRY*TSSTSAEDRDDSL LRRSGSYRDL*E*IPYSCRLDKD DSTDCIKLYEQILAENDKLKAQ LHDTNMELTDLKLQLEKATQR QERFADRSLLEMEKRERTALQR RISEMEERLQM
19033	49401	A	19142	1	287	

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19034	49402	A	19143	211	346	
19035	49403	A	19144	175	3381	EDPAAGEGMKMAKAKHRNE QLKRWIGSETDLEPPVVKRQKT KVKFDDGAVFLAACSSGDTDE VLKLLHRGADINYANVDG/LSH ALHQACIDDNVDMAKLLVDNG ANINQPVNDGWIPHAAPSCGY LDIAEFLNGQGAHVGVNSEG DTPLDIAEEEAMEELLQNEVNR QGV DIEAARKEEERIMLRDARQ WLSNGHINDVRHAKSGGTALH VAAAKGYTEVLKLLIQAGVYDV NIKDYDGWTPHAAH\W
19036	49404	A	19145	1	2406	
19037	49405	A	19146	1154	1365	
19038	49406	A	19147	1	293	MGVSVLDFSHSDKCEVASRFAS GMPEPTNIVLPKLEVADTLGGC TTIPESDLEERSVEQDSTELFTN HRHLTAETPR/PW*RLDGLHKQ VSPLQGVSE
19039	49407	A	19148	3	1290	VSQATDVEVGTDLVPSVTVKV TLQNRVILQKAKLSVYVQPPLE LTCDQFTFEMNRNPDGIPRVIQ CKFRLPLKLICLPQPSKTASHK ITIDTNKSPVSLLSLPGFASQSD DDQVNVMGFHLGGARITVLA SKTSQRYRIQSEQFEDLWLITNE LILRLQEYFEKQGVKDFACSF GSIPLQEYFELIDHHFELRNGE KLEELLSEAVQFRAIQRRLLA RFKDKTPAPLQHLDTLLDGT QVIALADAVEENQGNLFQSFT LKSATHLVILLIALWQKLSADQ VAILEAAFLPLQEDTQELGWEE TVDA AISHL LK TCLS KSSKEQA LNLNSQLNIPKDTSQLKKHITLL CDRLSKGGRLCLSTDAAPQT MVMPGGCTTIPESDL*ERSVEQ DSTELFTNHRHLTVETPRPEVSP
19040	49408	A	19149	48	642	WNSALREPR L NGADMAKSKN HTTNNQ\SRKWP\RNIGKKP\RS KIRILLKGVAPPSFL\RNMRFAQ ESPNNKGP*RLQANKLPRAMS ATLPRAIKALVKPQGG LSPKIP KGVSSRKLDSTCLTFAQPQALG SVARCP*LPRGPRL\CPPKAKAK AKAKPRPKPRPRAKDQNGPG LQPQASVPAQAPKRTQAPITKA SE

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19041	49409	A	19150	1953	2447	WTPQYMDTEYKNGPWMM EK KVWLD P/NETNEIPNANFRQQIR KLIKDG LILRHRKPVTVHSRAQ CWKSTLARRKGRHLGIESKKID RHMYHSLYLKLGKGNVFKHKRI LTEHSHK LKADKARKKPLADQ AEARGSKTKEARKLREEHLQT KKEEIIK TLSQEEKAKK
19042	49410	A	19151	1	693	MAVMEKLYWVNREESYASLR VHLPICNATTMSMLS LQKRLAS SVLR CGKKKVWLD PKETSEIAN ANSHQWIRKLIKDG LIIHKPVT VHS/*ARYR/KNTLACQKGRHMG I*KATANARMPEKIMWMR/RM RILCQLRRYCD SKKIDHMYH RRYHESKKVDRHMYHSLYLKV KGNVFKNKRILMEHIHNLKAD KACKKLLADQAETRRSKIKEAR KHREEHLQAKKEEIIKTLV
19043	49411	A	19152	34	280	EVIHAAIG EKKGSY/NA**PWVE EQLTRQPLIHHQPASLHSVY/RC RYHSLYLKV KGNVFKNKRILM EHIHKLKADKARKKLLA
19044	49412	A	19153	2	625	HEAMSMRLQKRLASSVLRCG KKKVWLD PNETNEIANANSRQ QIRKLIKDG LIIHKPVTVHSRLR CRKNTLAR*KGRHMGIGKRK VPANA\RMPEKVTWMRENEG FCRRLASEDTRES\KKIDRPHVV TALYLAEVKGNVFKNKRIL\ME HIHKLKA\DKARKKL\AD\QAE ARRSKTKEATKRREERLP/ARPR KREII*TLSKEEETKK
19045	49413	C	19154	154	291	
19046	49414	A	19155	3	253	
19047	49415	A	19156	2	474	FKDKQNKPTGFALGSIEGRVAI HYINPPNP*V*LCQLADFTGLFL TKEDLHEPLSFS AKDNFTFKCH RSNGTNTSAPQDIYAVNGIAFH PVHGTLATVGS DGRFSFWDKD ARTKLTSEQLDQPISACCFNH NGNIF/AYASSYDWSKGHEFYN PQKKK

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19048	49416	A	19157	97	1728	IRGFFRGSQGSFYRRLKEASGS WDFCPRSWPSSLRARSQSQTPE TLLLPAGVFRRSETPMFKMSLF GTTSRFGTSGTIMFGSAT\TDNH NPIEGY*K*HSFSLMDSIG\CSCL FSPPTLPGNFIAGSWANDVRC WAEVQDSGQTIPKAQQMHTGP VL\DVCE/SDGGSKVFTVASC \KTAKMWDLRQ*PRRLQIAQH\ DAPV\KTIHWIKAPNYSVMTG SWDKTLKFWDTRSSNPMMVL QLP\ERCYCADVIYPMAVVATA VERGLIVLIQL/ERIQPSEFRRIES L\KHQHRCVAIFKDKQNKPTG FALESIQGRVAIHYNPPNPAIK DTFTFK\CHRSNGTNTSAPQ\DI YAVNGIAFHPVHGHPCNCGD LDGRFSFWDIDARTKLKNFRE QLDQP/LSSACCFNHNGKHILP YASISYDWVKGDH\EFYN\QK KKFTFFPA*MQAEELKAPGNKE VVAGRTLGSASLFLHSGSLIS VRIWAPNLVGVSVPWTMEFQP PGENDVIVQQLESPPRPAGDLP VFSIPTGLVAEVFSGKPKGGLK
19049	49417	A	19158	1	1254	
19050	49418	A	19159	1	921	
19051	49419	A	19160	1	1386	
19052	49420	A	19161	49	731	

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19053	49421	A	19162	61	1533	PLKAKMGKEKTH\NIVVIGHV DSGKSTTTGHLIYKCGGIDKRTI EKFEKEAAEMGKDSFK\FAWV LDKLKAERERGITIDISLWKFET SKYYVTIIDAPGHRDFIKNMITG \TSQADCAVL\IVAAGVGEFEAG IS\KNGQ\TREHALLAYTLG\VE QLIVGVNKMMDSTEPPYSQKRY EEMWLREVSTF\IKKIWLQPPTQ *HFVPISWFGIGDNM\LEPSA\N MPWFKGW\KVTRKDGNA\SGTT LLEALDCILPPTRPTDKPLR\LPL QGVH\KLGIGITVSSAPMETGF SNPGMVVTFAP/SSTVTTESKIL SKMHP*SFEVKLLPGDQCPSM SKNVFCQGMFRRGKRLLDGQQ KMTPPNGKAAGLHWSRVIL\N HPRPK*GAGPMPLYLDC\HTGS HLHAKFAELKEK\IDRR\SGKKL EDGLKFLKSGDAAIVDIVPG\RP MCVESFSDYP\PLGRFAVRDMR QTVAVGV\ISKAVDKKGCWEL GKVTKVWPRKAPEG
19054	49422	A	19163	1	514	EFGTRAKKEAPAP*SLKPKRK AFKGPRKA\VLKGV\HSHQKEE DPARSPTFPGGPKTLR\LRRQPK YPRKSRVPGETRLDHLCLS\NF PLTH*VLPMKKIEDNNTLVFIV DVKANKH\QIKQAVKKL\YD\ID VAKVNT/LWIRPDGEK\KAYVR L\APDLPIAFGMFANKIWGFI
19055	49423	A	19164	433	1015	GLISNLDMASRGAS*\PTGPD TG NKICQFKLSTSGESPAVCKSSLV LRFVKGQF\HEFQESTIGAAFLT QTV\CLDDTTEKFEIWDTAGQE RYHSLAPMYRGAQAIAIVVY DITNEESFARAKNWWKELQRQ ASPNIVIALSGNKADLANKRAV DFQ\EAQSYADDNSLLFMETSA NTSMNVNEIFMAIGKINISF
19056	49424	B	19165	1	2511	
19057	49425	A	19166	2	360	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19058	49426	A	19167	125	211	FRPGSPRQPRAQPISAPDCTRA MVGRRALIVLVAHSERTSFNYA MKEAAAAA\KKGWEVVEIS DLYAMNFNPIIS\RKDITGKLE GPLRTFQYPGRSLFLAYK\EGHL EP/EIICGLNKKKLEAADLVIFQ FPLAVGLEVPAILKGWFEPSVH KESFA*HFTAGHVMDKGPFPG VKKAVAFPFTTGGSGS\MYSC QGI\HG\DMNVILWPIQSG\LPF LGLPKSLDPQLT\YSIWPP\PAR RPEFSILE\GWKK\RL\NIWDET PLYFAP\SSLFDLNFQAGFILMK KEVQDEEENKKFGLSVG\HHL GKSIPTD\NMQS*KRECTVHYT RDSHKVAAGAAQLTESLVPAR VAPATTSPANQRPLHQSHGR
19059	49427	A	19168	2	331	WVDSQQK\RYVPVKGDHVGIV TAKSGDIFKVDVGGSEPASLSY LSFEGATKRNRPNVQVGDLIYG QFVVANKDMEPEMVCIDSCGR ANGMGVIGQDGLLFKVTGLIR
19060	49428	A	19169	145	350	QEFHLSSEPSIRLGRSLYHIIHL FASKKVLD*QWLDQSL*VCSW EHMRRSQ*GIFSRLANRGFQNG DC

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19061	49429	A	19170	1	1863	MAVAIRLSADTQWEDSPGKSIL ELHMSCTKIPERCEADKKESTS SWCTRKIRFRMDLEKECKVLLS GGGGSRMGSSQKGDGVGRWSSP RVGLPSSQTLRPPPTDFHIAPL SKARQHLLVSVSVLFCFSAPLD VQPLKVLDECQNQRACHLLVN SRVFGPDLCPGSSKYLVSFKC QPKQMFTQQGPGPVLSIGETQV STSSVTRSSSPVGPDIHCEFHTN MCKIPDELKNKTVCEDQELKE HCHESKFLNIYSATYGRRTQER DICSSKAERLPPFVFTRYCYFLY APVSSIANPVKGCFFHLGKKQDC LSYSALQVLSRRCYGKQRCKII VNNHHFGSPCLPGVKKYLTVT YACATLSSMGPIAEVPPEAKK VTLSTSLDSSSGRMEDGRLDTG HTEVPVTSGLFIRVLNKKQNFS LQIRCSFGRGPGKLRHCWAGA AIALGTEYILVKGDQVTGIVTA KSGDIFRVDVGGSEPVSL\SYLS FEGATKRNRPNVQVGDLIYGQF VVANKDMEPEMVCIDSCGRAN GMG\VIGQDGLLFKVTGLN*E SLLASQICE/ISIQEVGKLLPLEI VFGMNGRIWG*GQKTHPSQTLI LA\NILAEACEHMT\SDQRKTDLP
19062	49430	B	19171	29	82	
19063	49431	A	19172	1	427	

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19064	49432	A	19173	1	1548	MTMAAAAVVARGAGARAATA AALRGGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMLRRIKEDD DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFDMMPKYL NFVKGVVIRKKLVKRLDMIK KIADDKYNDTFWKEFGTNIKLG VIEDHSNRTRLAKLSRFQSSH PTDITSLDQYVERMKEKQDKIY FMAGSSRKEAESSPFVERLLKK GYEVIYLTEPVDEYCIQALPEFD GKRFQNVAKGKVFDESEKTK ESREAVEKEFEPLLNW\MKDKA LKDKI*K/ALWVSSAALTESPVL LLVAQPVRDWS\GQHWERIMK AQAYQTGKDISTN\YYA
19065	49433	A	19174	37	266	WADRAAGGVRLTQGCVGGG GSCDRRGLETSPARTPVRLWV LG\LCCVLLTFGSV/READDEV VDGT\VEEDLG*KYEKDQVTD EYVQREEEA\QLDGLNASQIRE LAREKSENFPPQAEVNRMIE LFIQFHCINKKEIFLERLISNSS VALDRLSLISLTDENALSGNEEL TVK\IKCDKEKNLLHVQHTGVGM TRELK\KNLGTIA\KSGTKRVF *TKRPEA\QEDGPSQPS*IDWPS LGVRF
19066	49434	A	19175	233	664	RAPEQSSGVSAAEQERVNAG WPCSVAPTCPSRPAEPARCT* GKEEGG/CEDSDRADSGSPFQE PRYPSSGPFPIQASFPCLLV GIRGHSTILQYRGQEHVLTG RCLLVDPDLLVLVSKKSPNAA RDQPARYPRGPL

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19067	49435	A	19176	1	672	MAEAGPKPQRTLMWAWESVL SQRKPREAGRLSEGCVKATGTP GFGWQARPDQKEHRLDGRVID PKDRHGLVKDTEPRLNEQSLCG GLNPEATEEKIREYLASLGRRR PVKKVLEKKFHTVSGS/KCGPQ VPPSWSETYRTRA*SGDQLGTP AAPNPRWPME*EQEIEAQRSA HSGARAPWPPWPPRPDGP GNP GPKFMVSLSCWNISL RAGLLY AGCGCSP
19068	49436	A	19177	3	684	RHASARKKYNPPSWFHRGLPPP EDQEDEM SVSEELEPITLTPSSA LKPSDRMTMSSLGERACCRDY QRLGLGTLSSSLSRASEPFRIS PVNRMYAICRSYPGLLIVPQSV QDNALQVSRCYRQNRFPVVC WRSGRSKAVLLRSGGLHGKGV VGLFKAQNAPSPGQS QADSSSL EQEKYLQAVVSSMPRYADASG RNTLSGFSSAHMGSHGKWGSV RTSGRSSGLG
19069	49437	A	19178	1	341	
19070	49438	A	19179	1	3710	MVSGARAAAAAAAAAAAAAER TRGVPGHPDSTGR LPAHQQLQ RGLLFRQLGITNVLSLVCATLM EHEVLFLSRSYQQLTDACRSLL ALLFPLRYSFTYVPILPAQLLEA LSTPTPFIIGVNAAFQAE TQELL DVIVADLDGETVTIPECVHIPPL LEPLQSQTHSVLRMVLDPELEL VDLAFPPPM/HDKELRLFHQLL QGYLWCLHVVCIHPEPVIRFH KAAFLGQCGLVEDNFLMN VLE GMAFALFVLECGVP
19071	49439	A	19180	1	303	
19072	49440	A	19181	14	942	TKLTGSRG*LA*NPCM/HNNCE SCVDLLFVRGAGNCPEC GTPLR KSNFRVQLFEDPTVDKEVEIRK KVLKIYNKREEDFPSLREYNDF LEEVEEIVFNLTNNVDLDNTKK KMEIYQKENKDVIQKNKLKLT REQEELEEAL EVERQENEQRRL FIQKEEQ LQQILKRKNKQAFD ELESSDLPVALLLAQH KDRSTQ LEMQLEKPKPVKPTFSTGIKM SVGITLCPAEHTFNDRSFNLS SSWSKFNKPPSTLPFKVLDEER LVELKVPNTLITKLVPFAISPCS EAIQDHPAILLAYKKT PFWRLQ
19073	49441	B	19182	49	456	

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19074	49442	B	19183	53	333	
19075	49443	A	19184	2	208	VYPELQITNVVEANQPVTIQNW CKRGRKQCKTIPHL*FPYRCLG EPAGRAGVDWGPGLGRKRG CSC
19076	49444	B	19185	51	300	
19077	49445	B	19186	148	3568	
19078	49446	A	19187	1	3411	
19079	49447	A	19188	2	2416	NSRGAACAGPRETAAVAARAE QGRGGSHSHSSALGAPRRVAM LPGLALLLLAAWTARALEVPT DGNAGLLAEPQIAMFCGR LNM HMNVQNGKWDSDPSGKTCID TKEGILQYCQEVYPELQITNVV EANQPVTIQNWCKRGRKQCKT HPHFVIPYRCLVGEFVSDALLV PDKCKFLHQERMDVCETHLHW HTVAKETCSEKSTNLHDYGML LPCGIDKFRGVEFVCCPLAEES DNVDSADAEEDDSDVWWAG ADTDYADGSEDKVVEVAEEEE VAEVEEEEAD*LTRTDEDG\DE VEEEA\EEPYQEATERTT\SIATT TTTTTESVEEVVREVCSEAET GAVPSNDLPLVL*CD*REVCPI LRRMWRQPEQL*HRRVLHGRV WQR\PTTAASTPDA\VDKYLET PGDENEHAHFQKAKERLEAKH RERMSQVMREWEAE\RQAK NLPKADKKAVIQHFQ\EKVESL *QEAANE\RQQLVETHMARVE AMLNDRRRRLALENYITALQAV PPRPRHVFNMLKKYVRAEQKD RQHTLKHFEHVRMVDPKKAAQ IRSQVMTHLRVIYERMNQSLSL LYNVPAVAEEIQDEVDELLQKE QNYSDDLANMISEPRISYGND ALMPSLTETKTTVELLPVNGEF SLDDLQPWHSFGADSVPANTE NEVE\PVDARPAADRGLTTRPG

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19080	49448	A	19189	1	2355	MKSIFTSEISSVLIFVNPEPGRVV SFLGSGRREHAEERARGPRETA AVAAAREQGRGGSHSSALG APRRVAMLPGLALLLLAAWTV WAL\EVPTDGNAGLLAEPQIAM FCGRLNMHMNVQNVKWDSDP S\GTKTCIDTKEGILQYCQEVYP ELQITNVVEANQPVTIQNWCKR GRK\QCKTHPHFVIPYRCLVGEF VSDALL\VPDKCKFLHQERMGC FAETHLHWHT\AAKETLQ*RRS TNLHDYGMLLPCGIDKLRGVEF VCCPLAEESDNVDSADAEEEDS DVWWGGADTDYADGSEDKVV EVAEEEEVAEVEEEEADDDDED DEDGDEVEEEAKEPYEEATERT TSIATTTTTTTESVEEVVRVPTT AASTPDAVDKYLETPGDENEH AHFQKAKERLEAKHRERMSQV MREWEEAERQAKN\LPKADKK AVF\QHFP\EKVESLEQEAANER QQLVETHMARVEAMLNDPRRL ALE\NY\TALQAV\PPRPRHV\ NMLKKYVRARTEGLVSTSL*HF EHVR\MVDPKKAQIRSQVM\T HLRVIYERMNQSL\LLYNVPA VAEEIQDEVDELLQKDANYS** RLWPTMISEPRI\SYG\NDAL\MP SLTETKTTRGSSVPVNEEFSLD\ DLEPVHFFWWLTSVPANTENE VE\PVDARPAADRGLTTR\PGSG LTNIKTEEISEVKMDAEFRHDS
19081	49449	A	19190	103	463	PLLYAMSTGKRWLSFGSMIPPV AICASNKRIWPFSMSSLFMAW NKEMMFVPVSGSLYPVTARSAD RSFSLNSMPTRPLL*ASSTGNLK LLTGSTIKPVAAWASSNSRAVP GRTKPIFMAS
19082	49450	A	19191	1	182	
19083	49451	A	19192	3	437	MVHAEISDEGFFLSAPIALTQA WLNIPK\RRTFCK\KCGKHQPH K\VTQYKKGKDS\LYAQGKRRY DRKQSGYGGQN*KPIFRKKAKT TKKIVLKALSALSPTCRSKSKC WLFKR\CKHF*TGEEIRKRGQ VDPVLKCHLLFMEGH
19084	49452	C	19193	341	421	

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19085	49453	A	19194	15	1066	VLACTVEASVIGGQKREMNMG SIVREGFMEEAGPRIGFNLSFFI QSTVTGSSSVGSTQLQPLSLPPA TAGQEPRGTGPLGSHNSCPAPE PVSYGRLNDPPATTHPGSFTRF HSKPLTSSCWDSEMEGCVSNL MVCNLASFLNVSTNPCAFFPW YFYLLLL*AGWSPLHIAASAG RDEIVKALLGKGGVLNVYTNT DRFLHCFLSSPSFQIAVMLLEG GANPDAKDHYEATAMHRAAA KGNLLARNPNHYIELVVINWSL VVPDFRHLACDEERVEEAKLL VSQGASIYIENKEEKTPLQV\AK GGLGF*YSREWVGRFKQLGFIL YFVLLCCLSPVSYKLMYLCTRH
19086	49454	A	19195	1597	1923	
19087	49455	A	19196	551	747	
19088	49456	A	19197	1059	1296	
19089	49457	B	19198	1	1281	
19090	49458	A	19199	3	565	LPGRLLLLNFRQRRQIDRPSMN DTRNLSRT\RKFHAPTRPTSEEN KWVIDVLSPAGRPTVP*DQKFR EK\LA\KMYQAPHPDV\ILVFGF\ RT\HFGGGKTTGFG\MIYDSPWI MQRKNEP\KHRLAR\HGLYEKK KDLKKATEKERQEPELKKVQG GLAKGPLLGAQKEEMKCLAV ELEIGSQPKELKVLQ
19091	49459	A	19200	2	476	

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19092	49460	A	19201	1	2448	MRGSILKECGSKERASQVDLEY SRGNTASFAMCFHDRARIMKG SQRSRKLTTGGEGREEGERVENK DFLDLHGQIQVRLVVKTASLLS RVTYIAEVEGRETDAGWRNEL QVGRLDSDGPDLVVSISTDHTLV DTHLEAVGGHSHEFPYFKNHL ACHVESELQRDRNGHRDAGWR NMRHGITDKEMQDSQGSSDNH VLGSLRSWSARAAPALPLPEE AFVEMSTEGGFGGTSRSDAQQS LKSFWLRPRFFITELTLRAWIHT EDNNCRTYVAMAITKFDQLDF LIDIVLRDELKPPKCQEEVLQSV TPAEPVQYYFTLAQQPTA\WQV QGQQQGQTASSMTMQPGQII IAQLQQGQTTPVTTQVGEQQ VQIVQAQPQGAQ*AQSGTGW TVQGQIQTLATSAQPITQTEVQ QRQQ*FSQFTDGGQLYQIQQVS IPAGQ\DLAQ\PMFIQSANQPSD GQAPRSHEVIAAAPARRERER ELAGRGPFCPPAGNVRALKSR RCLPGERRERARKKKPEGGAA ASERGETDSHPGASGQGPDSG RVPLGMWSRRGLGVSRAPLHL LLGVSTSFPLPLTPLIPTTAVVN PLKPLKNRIKAPHRRMPLVPGG SQNLGTVRARISTRQSHAEPST DNERVLSMTQDIHSIFLNLKNIT WICTLQSCGFLLSNLCKDIVHK AGSGEARTRWSPRAQAGTHED
19093	49461	C	19202	124	369	
19094	49462	B	19203	739	870	
19095	49463	C	19204	787	969	
19096	49464	A	19205	101	331	
19097	49465	A	19206	137	415	
19098	49466	A	19207	86	221	
19099	49467	A	19208	1	1347	
19100	49468	A	19209	120	899	FGARGNLKKA YSTRSKMAELN THVNVKEKIYAVRSVVPNKS NEIVLVLQQDFNVDKAVQAF VDGSAIQVLKEWNMTGKKKN NKRKRSKSKQH QGNK\DAKDK VERPD\ACPLQPQPPIQNGPM NGCEKDSSSTDSANEK PALIPRE KKISILEEPSKALRGVTGP NIEK SAKDLQRCTVSLTRYRVM IKEE VDSSVKKITAAFAELHNCIIDKE ASLMAEMDKGIEEAMEILTAR QRKAEALKRLTDLAS\QMAE

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19101	49469	A	19210	211	2150	ADTKPERGVSSAVFASGSEGRRLGCVLLSSSETRLLSGTLLWIPRAYSTRSKMAELNTHVNVKEKIYAARSVVPNKSNNIEIVLVQQFDFNVDKAVQAFVDGSAIQVLKEWNMTGNKKNYKRIRSKSKQHQQNKDAKDKVERPEAGPLQPQPPQIQNGPMNGCEKDSSTDSA N\EKPALIPREKKISILEEPSKALRG\VTEGNRLLQKLSLGGNP KPIHGTTERS DGLQWSAEQPCNPSKPKAKTSPVKSNTPAAHLEIKPDEL\AKKRGPNIEKSS/VKDLQRL/CTVFF*LEYRVMN*RERKWDSSGERRSKLPFAE\LHNCIEQKEV\SLMGRKWD*SLKEGRPWEILDWLVRKKSKKKLRLTD LGQSRMAEMQLGPKLR\AEIKHFVSEAVNYDE\ELGKSCPGFSCDIEQ\LK\AQIHALPGKITHPK\NNYFLKELPCSSLL\PLLNAARSKPLGKTEVTFSRKSSTHNKPSEGKAANPKMVSSLPSTADPSHQTMPANKQNGSSNQRRRFNPQ\YHN\NRLN\GPAKSQGSNGEAEPLGKG\NSRHGTQEGQPH/NRFGFRPKNKGRCQKIQEASLGIEGPPRAPAHFLKRPRAKGSHAADTFGRARAFSGVS/GSVRGSQC�LFPT\RIEVSTDAAVLSVPGCDRWVA
19102	49470	A	19211	93	180	
19103	49471	A	19212	3	39	
19104	49472	B	19213	1	888	
19105	49473	A	19214	863	1509	GCAGPCLVNQMFTSSILCKSHCHSLVSINQGHNA PWKAAG\PLPLKAGYC\QSFSPCDSLKYG\SWDEKDLTVPPQDTRKASVLRWISQRGKPLAVDMEEG\HCL\CLPPGN*NVLGCKTPIVHLFNSSELGRKAALWREARHVG\SNAALLFFTPLRCLGGEKHKSGLHAHPGIVP\SELNYDIDSF AHVFV FVVAVELPLIITLLPYCIPCCNNEK
19106	49474	C	19215	289	510	
19107	49475	B	19216	534	1686	
19108	49476	B	19217	1	1062	
19109	49477	B	19218	1	1878	
19110	49478	B	19219	1	747	
19111	49479	B	19220	230	786	
19112	49480	B	19221	67	6011	
19113	49481	B	19222	1	3455	

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19114	49482	B	19223	1	4763	
19115	49483	B	19224	65	4534	
19116	49484	B	19225	512	4782	
19117	49485	B	19226	345	2194	
19118	49486	B	19227	267	7391	
19119	49487	A	19228	578	739	
19120	49488	A	19229	419	1410	KQRQARERHLPRIQLSAVVITIE TL*RK*RNFAELKIS/RLRKKFA HKMLQKARRKLIYEKVKHCHK EYRQMYRTEIQMATMARKAG NFFVHPKPKLAFVIRISAISGVSP KWKNKQLCPNLHVFGGLMGD LRAFGLADGTGPSGGEITGMRD LRGPLSVRAPSAGVAEIPRHLIV FEDVVNGKFLQTSRCEISGSKN KVWQTLLKNKRERQRLPTGFG RLADQRAYGEAKNCGQVGL VETLWERHLLRIGVYIATSSLA VPTLSSNYNGLAHDQSCSDTVQ RSTGAPEAWDRGYCVGRGAQG IPIFFLDRPLTSLFDEARGSSAS
19121	49489	A	19230	3	307	AGTMEGVEEKKKEVPAVPETL KKKRRNFAELKIKRLRKKFAQ KMLRKARRKLIYEKAKHYHKE YRQMYRTEIRMARMARKAGN FYVPAEPK\LAFFVIRIRGI
19122	49490	A	19231	3	160	GRVLL*DKTSRGTIRQQQLLFT NICCSAASA/G*YPGKQGLEWT SSRLQQTCS
19123	49491	A	19232	303	570	GLCIRHVLVPSAAGLLEFAGGP LQTLFAWVSAAEAAEQIWWN SKCC/CPDRSSGSFVSEYLA GVGLTLSSASLMLGAVDWSCS HSA
19124	49492	A	19233	1	176	MQYVQQKPKLKFQVHICAYRK TVLQPPLLIPRQT/VVWSGPPA NSNRPAAGGADC*KEN

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19125	49493	A	19234	1	1977	MFAVLQAPLVIPRQT/VVWSGP PANSNRPA AEGPDC*KEN*RQT GSGVDLQQTPTDLQLRVLIVRR KTNEQKGHPHQNPICSPSSKT KVDTTTNMGEKQSRKTENSKN QSASPPPNLKKKREKNQIDA NDKGDITTDPTETIQTIREYYKH LYSNKLENLEEMGKFLDTYNLP GLNQEEVESLNRPI TGSEIEVIIN SLPTKKSPGPDGFTA EFYQRTK DKNHMIISIDEEKA FDKIQQPFM LKTNLKLGIDGTYLK IIRAIYDK PTANIILNGQKLEA FPLKAGTR QGCPLSPLLFNIVLEVLAREIRQ EKEIKGIQVGKEEVKLYLFADD MIVYLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTSNRQT ESQIMSELPVTIASKRIKYLGIQL TRGVKNLFKENYKPLLNKIKED TNKWKNI PCSWIGRINIMKMAI VPKVIYRFNAIPIKLPM TFFTEL EKTTLKCIWNQKRAHIVKSILS QKNKAGGIMLPDFKLYYKATV TKTAWYWYQNRHIDQWN RTE PSEIMPHIYSYLIFDKPDKTRNG ERIPYLIRWCWCWQNWLAICR KLKLD PFLT SYTKINSR WIKDL NVRPKTIKTLEENLGITIQDIGM GKDFMSKTPKAMATKAKIDK WDLIKLSFCTAKETTIRVNRQ PTEWENISAIYSSDKGLISRIY
19126	49494	A	19235	206	456	
19127	49495	A	19236	2	385	NLCCSAASAGDTQANRVWSGT PTNSSRPEVSSGAMDGEGWGL PVDPLTPGHQDALPWQRCYHP CSSSSVPPRQACASPSCSSAA W/TSASTGPWHSGCGSSCGSCC CWGSPSASVGVGAGAIRSRTV
19128	49496	B	19237	1	642	
19129	49497	A	19238	128	584	
19130	49498	A	19239	4054	4578	QSGPSAAGLLEFAGGPLQTLFA WVSAAEAAEQRLVNSRCCCLI VPRKFCLRGVASHVRCQSAPY DVFCHGITLAKWCW SALGLPSL QSCEPNALFFINYPVCGI/TAPCC KVEGTMGIVGPKSPQLASYNVL GSDNNGVLLGSM AIFTILILLIH EHGMFFHLFVSSFISLSSGL

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19131	49499	A	19240	1	948	MVLEKAREEVDPPSMLIPPVTQ CGQLPRSQCPOPTLSRMLTLEV GISLGIIVLMISLWPDTVKEYQS REALSFKKYNKNPGLLKFAAGDP LQTLFAWVSPAEEAEQQISALC FLWKLRPRGAPTRCQPLLSYTR CLSAPAGSFVYTMRGKPPIQAS VMADASPPTKIEHPRTTSDCCV ASKNFKPVDLSLLCSMGVGSAAE LDHWATWLQSPFQGSERFCLA GVPGTTGV*KETPAASSVSAQM AAQFCA*N/HRTLTVV*APKGIL WVCGLRRPWEEKRSICAGVHHS SWHSPSWLPLARGGSSSTPCTS WVRRCP TLHL
19132	49500	A	19241	171	1345	YCPKEGTLDFNFAFNMTAVNV ALIRDTKWLTLEVCREFRGTC SRADADCKFAHPPRVCHVENG RVVACFDSLKSVTAVPFLFMAL GLSREPETVPASMVQTFSLGVG GGAGSV*PDENCKYLHPPPHLK TQLEINGRNLIQKTAAMFA QQMQLMLQNAQMSSLGSFPMT PSIPANPPM/SFESLRYHILGMG LVPAELVPNTPVLPKPTSLQL PGSCLGPKLMAFQINWEVLPRN FQRG\NC\SRGEND\CRY\AHPTD ASMIE\ASDNTVTICMGYIKGRR TVGVWGIKAKSSQRILDTKGS HQNSFVRGTDYLIPTNMSK AKGTAFLKWMQKLVYNGSSG QCSPAFFCCAWKEHSEKAGRA SGAKCNRHRHTNPVFLMREGA IS
19133	49501	A	19242	61	544	KFNP\FVTSRPRARIRKRAF\NAP \SHIPKGRLLSFPLSPKSLRPEG TNRADSHAPIKRMIESSRLYR GHL*GSAKLAKVVPFRTRKKY VIYIER\VQREKA\NGTTVHVGI HPSKQVVITKAKTGKTRKKIP PNRKAQSRQVGKEKG\KYKER TIEKMQE
19134	49502	A	19243	652	1042	TPLSSCFLSREKATQLLFPVVA VPMVLSAMGFTAAGIASSSIAA KMMSAAAIANGGGVASGSLVA TLQS/LG*VSWRGLPTVLPTELP RQACPTLSTLCFFPGATGLSGLT KFILGSIGSAIAAVIARFY
19135	49503	A	19244	48	397	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19136	49504	A	19245	42	296	GCVGVRLHPATSTASGSASP TLARAMASVSELACIYSALILH DDEVTVTEDKINA/APAEKKV EAKKEESEESDDDMGFLFD
19137	49505	A	19246	172	519	LGPSFLHDDEVTVTEDKIQMPLI KAAGVNVFPFPG/LCFAKAL GKRSTLGLLAMLGGPVGPGS QPAGCLQPAG\GSCPPSTCCWF QLEGEKWEAKERKIPREF*LID MGFLFD
19138	49506	A	19247	3	175	
19139	49507	A	19248	2	390	GWDWNCVWEPHHWLCQSL/N SVTQAGVQLCNLSSLQPLPLGF KQFSCSLPSSWDYRNP SLKQQ LFSYAILGFALSEAMGLFCLMV AFL\SLPCEGAVSTSHSSPASG WPRVFLFLYLPRQPGERGWL R
19140	49508	B	19249	139	13320	
19141	49509	A	19250	28	450	TNDFNLQNP GSCFPSACPAGVG SERLPVLGWVFNRSFPPPPQST LSVLGKRLGRNGAIAAGVFGA LFIGYCIYFDRKRLK*PQLKDAE AVQKFFLEEI*\GEEILAKGVD HLTNPSAFFG/QPNHFPLQMDSF GPFLRFQA
19142	49510	A	19251	164	420	
19143	49511	A	19252	1	329	STHTTYWEGCRTTSAGLLRKH EPGEEAF/FYHST\SKKPGIAGLI KVN VQFVRMMKRSIPW AELNP YHQA HKATGGPLKNMVLFT RQ RLSIQPLTQEEFDFVLSLEEKEP
19144	49512	B	19253	39	368	
19145	49513	A	19254	1014	1290	
19146	49514	A	19255	122	680	LARITRIVRTKVPCSVTMSRPRK RLAGTSGSDKGLSGKRTKTENS GEALAKVEDSNPQKTSATKNC LKNLSSHWMKSEPE SRLEKG VDVKFSIEDLTAQAKQTTCWD GVRNYQAS/RNFLRAMKL GEE\ AFFYP*QLAKKPGIAGLMKIVK EAYPDHTQF*EK\NPHYDPSSKE DNPKWSMKSLIF

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19147	49515	A	19256	2	1005	RISTSTLCPPKPKKLIAPPGRAGL ASMGLNEEQKEFQKVAFDFAA REMAPNMAEWDQKDRKADGK GGA VTQEVQAQLLVKHGQKL VSRFQLSSFSYVDSVRTTQSKQ EHLQTDKGLSGKRTKTENSGE ALAKVEDSNPQKTSATKNCLK NLSSHWMKSEPEsrLEKGVd VKFSIEDLK\AQPQ\QTTCWEG VRNY\QARNFLRAMKLGEeVAF FYH\SNCKIEPGIAGLMKIVK\EA \YPDHTQFEKKQPPPL*PPS*QR GTPPKWPHGWMV/QVWFGMM KRFHSPLAE\KSHHQA\HKA\S GGPLAKNMVLFTR\QRLSNQPLT \QEEFDVLS\LEEKEPS
19148	49516	A	19257	3	727	VRLQFLTPTLRAARTMAAPPQL RALLVVVNALLRKRRYHAALA VLKGFRNGAVYGAKIRGPSRR WVMTFLFREWAASREKLWAIL QATYIHSWN\ARFVFHLTRV FRCPAVPYITRARTYPAHAFFPG AGLSFGGILVFGRKQ*TFNSQ\I NMYLLSTRPCLP*SR\LA VRRK GLHP*NPRWDPPF/VCLTAVVW GLVLWLFeyHRSTLQPSLQSSM TYLYEDSNVWHDISDFLVYNK SRPSN
19149	49517	A	19258	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTP GT FTNQIQA AFREPRLLVVTD PRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS\DPEEIE KEEQAAA EKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAPWSRTSQPPE

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19150	49518	A	19259	1	1309	GNLAAGKTIQAQDRDAVGILSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEDVL KFLAA\GTHLGGTQFLLSRGHG YFYKGKS/DGLSFIINPKRAREE\ LLLPARQIVPHKTPSDVSVISSG NTGQVCGTVRA/VCLKFAAAT G\ATPIAGR\FTPGTFH*PRSKA AF\REPR\LLVVT*PPGADPPALS RSASYVNLPHYHLRCGNT\DSQL RYVDIAIPCNNKG\AHSVGLMW WMLARGSFCAMRGTI\GREHPW VEVMPDLYFYRDPEEIEKEEQ AA*E/RQVTKEEFQGEWTAPAP EF\TATQPEVADWSEGVQGAPL VPYSAIPPTEDWSSQPAMEDWS AAPTAAQATEWCSTSLRQNPSD TELKKEGLYSARSISKTHVSKT ELPNQGTKKCSRTSHRQNPSVT ELKKEGLYLARSIGKTHISKTEL
19151	49519	A	19260	965	2495	AFTTRSTFSTNY\RLGVSQAPS YGARPRQAARPASYAGAGGSG SRISVSRSTSFRRG\MGSGGLAT GTSPGVMAGM\GIQNEKETM QS\NDRL\ASYLGQE*RSLEDR RTRKLGRAKFREHFGRKKGPQ V\RDWASHYFKI\EDLEGFRFFR KILVGQCPASVSARFDNAPSL LD*F*EFKY*GQSWPMCPVLE NDIPLGSAKV\DDTNYHTDLQL VETEIRGSSRRELLFQ*RRNHEE\ EVKGLQAQIASSG\LTVE\VD\AP KSQDLAK\IMADIR\AQYD\ELA RKEPEKEA*TKYWSSADLREST TVGHPHKA*GWKLAEDDASQ KLRRTVQSLEDRPWTSMRKSE RPALENSP*GEVEAPLRPLQDW SQLQTGIPACHLWSQELGTRHR AQRGQRPGPQGV*GPLLNHQG SSLEAEICHLTRPPSWKIGEDFN L\GDS\LDERNMQTIQKTTTPP G*VGLGKVVS*DQLTPKVLKAL SQQEAVVPFWGSRRIKSFRVQ KKKKEKESF

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19152	49520	A	19261	387	1125	CCRPCATPYALRSPLR*PACPPP RWRPSSMPTSRPPVSPAASPTC GTCMLSP\CPPAEHLLHLP HQP QDPALLQPCHPAPPLRPRALHA AHHVGPAPHQPLLPPVLCPC GGAGRGGG*RCPWRGPSSSSPG PTLIAGQDPGAAQP*TWQ/PTL TSVSATASPKAP\LPLAAAVPGA PAEGCCPLLRLQALPAGQLPPGG RRATSAVPPAVPGD/PPAQPTM PGSMSCW\ALAPARPCPPGRCW AWRS
19153	49521	A	19262	3	1097	RGNSRLRYSHDELQLPRLPEL FGNCRQLLEEVEVATDPAGFR\ IVQEK\VFKG\LDLLE\RAAEMLA SQSTLFGRECRFWKDLSPHLIT FWGP\AFQGALTMKQVNPSKR LRSFCSGAREHFI\NYLTQCH\ C YHVGQSFEL\PKTMNNSAENH TANSSMAYPSLVAMASQRQA KIQRYSKQKKELEHRLSAMKSA VESGQADDERVRGYLLHLQR WVDISLEEIESIDQEIKILRERDS SREASTSNSSRQERPPVKPFHS HFGTWLHSQSTFGAGYSKGWP TYGR*VSWYE\QHRKLWSTYP DQGNMPRAAPEGISEKAAQQQ EDQEEKEEEDDEPNNFHRRARE WDDWK\DTHP\RG\YGNRQNM
19154	49522	A	19263	2	262	
19155	49523	A	19264	3	1062	GRTAENPARAVSSPNFYAHRKT EVLFPCLTQPLARGPKKHLKAR VAAPKH\WMLDKLTRVFAPRIP STG\PHKLR\ECLSRIFLRNRLK \YAL\TGDEVKKI\CMQR\FIKID GQGSELDINLPLLGFMGCP SAF DKTGEENFRLDLIDTQGV RFC WYIRI*PPWRKAKLQVWCQK* GKILCGPTKRESPSSGLTH*CPA PHPAYPPIPPHPR*NGYIPD*I*E DLAKINLISIQSSEHW*TL CMGD LEGA*P*GRNWVLITPTER GHP GIFLTVGSR*KDANGQQAFGHF GLFQHFLVIGKGNKTHGISL\PR GKGIRLHHLLEERDKRLA\AKQ SQWGEMGSLGVDIVQIFWYRN
19156	49524	A	19265	62	298	

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19157	49525	A	19266	1	555	MAWQMMQLLLLLALVTAAGSA QPR SARARTDLLNVC MNAKHH KTQSPPEDELYGQ/SP/WMCKG SCRKTKSWNI/HRKSKCEVGLA/ WEACSVSAGTGRGPGCGRWV GAPQGP/CPRKCSSG*PTW/VQR SQNMEEMAVVNQSWRKERILN VPLCKEDCERWWEDCRTSYTC KSNWHKGWNWTSAPSAVCDP LL
19158	49526	A	19267	216	974	MDMAWQMMQLLLLLALVTAA GSAQPR\SARA\RTDLLNVC MN AKHHKKTQSPPEDELYGQCSP\ WKK\NACCTAS\TSQELHKDTS RLYNFNWDHCG*KWNPTCK\R PLY PQDSC\YECLTPTLG PWIR QFNQSWRKERFLNVPLCKEDC ERWWEDCRTSYTCKSNWHKG WNWTS\GINKGRPGAF*STFES YFPTPAALCEGLWSHSFKVSNY SRGSGRCIQMWFD SAQGNPNE EVAKFYAAAMNAGAPSRGIIDS
19159	49527	A	19268	345	2138	QRLTATSSWTTMAKNRRDRNS WGGFSEKTYEWSSEEEEPVKK AGPVQVLIVKDDHSFELDETAL NRILLSEAVRDKEVVAVSVAG AFRKGKSFLMDFMLRYMYNQE SVDWVG DYNEPLTGFSWRGGS ERETTGIIQIWSEIFLINKPDGKK VAVLLMDTQGT FDSQSTLRDS ATVFALRHNDPASIQVYNLSQN VQ\EDDLQ\HLQLFTEYGQDW AMGGKHFL EAFRSLDYFFVRD W\SFPEFSYGADGGAKFLEKR LKVSGNQHEELQNV RKHIHSCF TNISCFLLPHPGLK\ VATNP NFD GK\KEIDDEFHQKL*KYLIPWA YFRSRGA*DI*RRSNGGLK\ITC RGLVEYFKAYIKIYQGEELPHP KSM LQATAEANNLA AVATAK DTYNKKMEEICGGDKPFLAPN DLQTKHLAT*GRNLWKLFRGV KKMGGEFSRRYLQQLESEIDE LYTNISSHNDSKINTFPCSSYPQ PTLFCSHPLITYVIAGVTGFIGL DIIASLCNMIMGLTLITLCTWAY IRYSGEYRELGA VIGPRWLQLC GTREVQMRPW NKLYQCQQAT PTDILYPSKPFPLHPKVGNLTEQ IQKRKKMVMPKF

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19160	49528	A	19269	351	509	VVPLPLPLDSWTCESWLRSHI LTGESENPDHKRI*PYTSDLPEG PGPWATD
19161	49529	A	19270	781	4324	ESVREKVLCLGLIQQTVTSVC/W SGTYIFAVLLVCVVFHSGAQEK NYTIREEIPENVLIGNLLKDLNL SLIPNKSLTTTMQFKLVYKTGD VPLIRIEEDTGEIFTTGARIDREK LCAGIPRDEHCFYEVEVAILPDE IFRLVKIRFLIEDINDNAPLFPAT VINISIPENSAINSKYTLPAAVDP DVGINGVQNYELIKSQNIFGLD VIETPGGDKMPQLIVQKELDRE EKDTYVMKVKVEDGGFPQRSS
19162	49530	A	19271	3	644	FRSLPRRCLPRWQPSSFLGHHG PPFRPPCEAPKIVKKENPRKFIR APSQTGY\AKLSVNWRKTPEAI DNRVR\RRF\KGQILMP\NIGYG SNKK\TKHMLPSGFRKFLV\HN VKEPEIAADVATNLTVPRSLTM FPPRNRKAIRGKGACPIGPFRRSS PNPIARVAQLKEN*VRQLMCN KSYCAEIAHNVSSKNRKAIVER AAQLAIRVTNPNARAQ
19163	49531	B	19272	27	161	
19164	49532	A	19273	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19165	49533	A	19274	482	832	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19166	49534	A	19275	121	201	SMYMDEN*RLELITL*FSSMYM DHSL
19167	49535	B	19276	1	1147	
19168	49536	A	19277	305	442	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARHGSFADAE
19169	49537	A	19278	133	527	GFLERPRILIKVTLSIKQKSTSIF VGGQFSKFRFLTVAWKCLSQP CF*A*TPASQHVS*SIRAISMIS KRSELLVRLWRRPSP*AGLFKS RKVSSICIRFE*ILTSCLGVRIST GKLVARHGSFADAE
19170	49538	A	19279	531	669	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARHGSFADAE

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19171	49539	A	19280	80	428	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLL FMRKRSRFQSNVQR KLMTNF
19172	49540	A	19281	10	426	
19173	49541	A	19282	1	900	
19174	49542	A	19283	314	451	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19175	49543	A	19284	1	1139	MWGIGSRTPIYNKILVYSSPEVS CEKPKYVKSQTSTHTGFESHKR YIFYRLRVGKNLHVSAMGLGK SQERRKKALKSQPPQPADSFPS LPTVEGLTTSGEVAAGFWLSGE ALSSC*LLSASVHLLLAACLGMG KCSCSGFWLYF
19176	49544	A	19285	1	864	
19177	49545	A	19286	306	444	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADAE
19178	49546	A	19287	189	1089	HHTAHQC*CWL*S/DHGINPLRS WVGTG*V/GVRGKVQYADLGA ENWKPISNLHDMSSSHSKTLGY KRLTKSNPISCQILLYKSRKGR KNQRSTRTHCHHPSPKIYSASA KEPWVLATNLPVEIRTPKQLVN IYSKRMQIEETFRDLKSPAYGL GLRHSRTSSSERFDIMLLIALML QLTCWLAGVHAQKQGWDKHF QANTVRNRNGSLLTNWPSVPP TIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQ EGSPPETSLPYKWVVEAANLLI PAVGSSLSEALDLIES
19179	49547	A	19288	1	549	
19180	49548	A	19289	80	430	RWLATPYLTVKLSLLPNLAVTC QPKREQNITSNESTDC*VIVTST KSDSLYTVGMLALSVRRAIRCPL YLLTGLISVSKNGLWYCELQSH YTVVLLL FMRKRSRFQSNVQR KLMTNF
19181	49549	A	19290	80	430	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLL FMRKRSRFQSNVQ RKLMTNF
19182	49550	A	19291	773	1015	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARTHGSFADASF STDLYHGTLKPASLTMSGVLL GRMLARSARNWS

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19183	49551	B	19292	1	1488	
19184	49552	A	19293	2	133	YAQTDDNRRNLILNGTPLRRVK VLVFDIEYP**KVIYGYNSTLA
19185	49553	B	19294	1	879	
19186	49554	A	19295	80	428	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF
19187	49555	B	19296	1	1575	
19188	49556	C	19297	1	2187	
19189	49557	A	19298	473	613	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADADT
19190	49558	A	19299	410	547	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARIHGSFADAE
19191	49559	A	19300	876	1005	
19192	49560	A	19301	167	263	KLIEAIWSS*FITGSSLRHNERLG ASTSSGEY
19193	49561	A	19302	258	396	AGLFKSRKVSSICIRFE*ILTSCL GVRISTGKLVARHGSFADAE
19194	49562	C	19303	1	1641	
19195	49563	A	19304	1221	1327	ALHPRNRHLHKERLGCIPVAC* LYLFGQYDAHCTC
19196	49564	C	19305	1	1353	
19197	49565	B	19306	1	2047	
19198	49566	A	19307	80	429	RWLATHYLTVKLSLLPNLAVT CQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP LYLLTGLIFVSKNDLWYCELQS HYTVVLLLFMRKRSRFQSNVQ RKLMTNF

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19199	49567	A	19308	1	2597	MAMFMLLAAALLSTFLTNDVALYTVVPLTITLKRICEIPYNRLIIFEGAGSQRFATDANWQPAKYSLGTFWSFVCRIYCPNGTAGWRNDADAPAVLAMQYHTGVQTPEWKPRLVWSCLGLYIVFLTALFEKQELWGLVIVAAGFALLARRVVLSVDWTLVVFMAMFIDVHLLTQLPALQGV LGNVISNV PSTILLNYPSPSLLLVAVNVGGFGFLTCTRHARIAAPADLKDGLAVHEKRETRSLTEKTGKMLLPKLGVSRECGGNVKEVGIRAIEFGPYKINGDKEIMRRMDDLQGFDAQHRMKLPAQPTSLATKSARRVRYPLFCPSIFNGFFEEFIFHRFLAEQALEFFNLLHGGSKFRGRNNLFSGGDSSRKNQRSTRTHCHHPSPKIYSASAKEPWVLTNL PVEIRTPKQLVNIYSKRMQIEETFRDLKSPAYGLGLRHSRTSSSERFDIMLLIALMLQLTCWLAGVHAQKQGWDKHFQANTVRNRNCKMATLKEKLIAPVAEEEEATVPNNKITVVGVGQVGMACAISILGKSRAHEHTTAGAPYTTPRQQTCCNMMSLADELALVDVLEDKLKGEMMDLQHGSLFLQTPKIVADKDYSVTANSKIVVVTAGVRQQEGESRLNLVQRNVNVFKFIIPQIVKYSPDCIINVSNPRDLTYGTWKL SGLPKHRVIGSGCNLDS
19200	49568	A	19309	435	777	RWLATHYLTVKLSLLPNLAVTCQPKREQNITSNESTDC*VIVTS TKSDSLYTVGMLALSVRAIRCP CRLVDWADIPEQKQLMVLRAVALHGRSVTLYEKAFFPAFRAMFKRSS

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19201	49569	A	19310	69	1270	LCLLRHDCYRGLQSLLLILCKM ATLKEKLIAPVAE\DEA\TVPNN KITVVGV\GQVGM\CAISIPGK VSWPDEL\ALVGCWFEDKLKG GNDGSFQHGELIFFQTP*NCGQ DKGLFL*PANS*RFVSW*LAGS PVQPRRGRIRLQSWVPEKWLM VFQIPLFLKIVQVQSLICIIIGGFN PQLDILTYVTWETKVGLPKHR VIGSGCN\LDVARFRYLMAEK TWHFIPSS\HGWNFGGNMGDS SV\AVWNGV\NVAGVSLAQELN PENGNTNDKLIWKEGA*IW WLKSA\YEV\KLKGYPQLGAI WI*VLAESYWNPMKKSYPRI\ HPGCPTNG*RQGM YGHW RME SPSLEPSLCIPQCPRGLNPAVIQP RSLKDDEVASASRKSARIPLWD NPEWTLKRPLT
19202	49570	A	19311	52	406	HVEAAGSR*CAAPAGALLRFLG TPSFEDVSIPEKPKLRFIERAPLV PKVRREPKTLSDIRGPSTEATEF TEGNFAILALGGGYLHWGHFE MMRLTINRSM\DPKNMF AIWR VPAPFQAH
19203	49571	A	19312	1	783	
19204	49572	A	19313	15	397	LLAEWTMGHTPVGGFRGAISL DAAP*EQGTMLVSWLCDLFLV LRILVGKTVSSKNIFIERVNGDG KHENIPMSSPPRSWFPSEKRFTN RRKTSSHLQNLVLGAVSLRQH WRGGVPRNLTRAPAGAAH
19205	49573	B	19314	127	181	
19206	49574	A	19315	242	1067	CAAPCGCPCQIPGALLPASAGV KTLLPVPSFEDVSIPEKPKA*DL LERAPTCAQK*RREP*KFKVTIR GP\SH*KPTEFYRKAIFAILGIGV VGYLHWGHF*K*WRLTIQPAL WTPRTWFAIWR\VPAPFKPITRK SVGASHGGEAKGAI*HYLTPV KAGRLV VEMGGRCEFARS AK VSLTQVALRSCPFASKRL*ACG TPREGCEQDQEERERQQPRTPW TI*AE*PTAQHGWAYGKVPEPH MTLTPQGEILGARFYMPKTCVV SVGDILYIGY
19207	49575	A	19316	1	520	

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19208	49576	A	19317	104	763	SAAADGPDRLRRRPPANLRARP VLAPASATASARRACSPHPQT MSEKISCPEYASFFAVMGASA A\MVFSALGAAYGTAK\SGTGI AAMSVMRPEQIMKSIIPVVM\A GIIAMLRPGWVAVLIANSLNDD ISLYKS\FLQLGAGLSVGLSGLA QPAFA\IGFVG\ DAGVR\GTAMH AADIFRGA*FLILIFAEVLR\LY GLIV\ALILFHKVDLFRAHQPT
19209	49577	A	19321	36	164	
19210	49578	A	19322	190	743	NDRGKEGSLSTVPSIRNTDSGH LAPRRKPQLKPSLNTSFPKAR KIHKGEHEVASAGGNPPAPILP KVPP*FNIHRRGPPWPDHVRFG SLF\NTLFL\NWCCLGVS\LAFL LP*KSRDTGKMGLGDVEPGAQ ALCLPPPKCLNI\WALILG\IL\MT IGFIL\LLVFGSVDSL TILWFQIIQ GKTGGY
19211	49579	A	19323	2	257	
19212	49580	A	19324	1	1227	MGRARKSGLGQRSRPTASRSEA AVQPGVRKARGAGNWRVGLQ TGEAAPS\PHRDLR\DP\RPWL ARTHRMTTTLVSATIFDLSEVL CKGNKMLNYSAPSAGGCLLDR KAVGTPAGGGF\RRHSV\TLPS KFHQ\NQLSSLKGEPAPALSSR DSRFRDRSFSEGGERLLPTQKQ PGGGQVNSSRYKTEL\CRPFEE NGACKYGD\KCQFAHGIHEL\RR LTLHTKD*TEL\CR\TFHTIGFCPY GPRCHFIHNAEERRALAGARDL SADRPRLQHSFSFAGFPSAAAT AAATGLLDSPTSITPP\ILSADD LLGSPTLPDGTNNPFAFSSQELA SLFAPSMGLPGGGSP\TFLFRP MSESPHMFDSPPSPQDSLSD\QE GYLSSSSSSHSGSDSPTLDNSRR LPIFSRLSISDD
19213	49581	A	19325	204	456	
19214	49582	A	19326	1	323	IVEYHGPVDSISCTGMATICN MGAEIGATTSVFPYNHRMKKY LSKTGREDIANLADEFK\DHLP DPGCHYDQLIEINLSEMV*PDM LPAPRLAHGVTVVVVGGFLK
19215	49583	A	19327	2	131	
19216	49584	C	19328	2	283	
19217	49585	A	19329	1	206	
19218	49586	B	19330	217	435	

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19219	49587	A	19331	1	565	PWE*SPKGIGVSCGPLSGWS/SPKD/VILKVQ/GILRFKGGTVQIVESTGLG*TPFSCTGMRQFCNMGAEIGATTSV\FPPYNHRMKKYLSTGTREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWP LDIRVDALACQSLAFGAAWVQCGCEEHGAWSQMAWA
19220	49588	A	19332	117	2603	GQHCLLPWGVFPFLKKALGV\ARQ*\HVASVLCQRARIVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLATLSE\KIVYGHLD DPASQEIERGKSYLRLRP\DRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLKIEPQVGGEKDL\RRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYCVPWLSF*LGPDFHTPNGGGLGG\ICIGSCGWPNAWEWNLGIPWELKCP\QVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAIEIGATTSVFPYNHRMKKYLSTGTREVDIANLA\DEFKVHLVPDPG\CHYEPTELKINLSEL\KPHIQWGPFTPDRGSPCWQEVGKVGREGKGWPL\DIRGGS*LVACTNFKLWKIWGRSAA\VAKQALAHG\LKCKSQF\TITPGFPRQ\IRATFEARDGYAQILRDLGGIVL\ANACGPCIGQWD\RKD\KMGKNTI\VTSYNRNFTGRN\DPNPETHAFVTSPEIVTALAIAGTCLKFNPETD*PDGARMGKKFQAWRFPD\AD*VFPKGEF*PRGRDTYQHPPK\DSSG\QHVGT*APRSQRLQLLDPFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLK\FRGHLNIPN\NHLLIGAINIENGKANSVGNAVTQFPGPAP*QLARIYYQETLASRLGW
19221	49589	B	19333	1	1311	

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19222	49590	A	19334	2	1390	PRVRPRVRARPTKMSALGSLSL PSVLWGQLFAVDSGNDVTDIA DD\GCPKPPEIAHGYV\EHSVRY QCKNYYKLRTGEDGVYTL\NTI EKQWIKLRLFGD\KLP*IVEADD GCPKPPEIAHGYVEHSVRYQCK NYYKLRTGEDGVYTLNNEKQ WINKAVGDKLPECEAVCG\KPK NP\ANPV\QRDPGVGHL\DCQRS FFPWARLKDGFPHH*SSTHQP RWIQLNQWLA*PRLKNLLSLN H\SENCQQRKDICYF*HFMWG KKQLVGD*GRLFLQP*LTPRVD IGL\KLQTEGCSC*LRRVMPICL PSKGLWQK*GRVGLCFLAGGR NAQF*NLLTHLKVCPCCPVA*P KTQCHKAIYERPSNKSPRKRKN TRKKPL*GVQAPILK*NTPFLCL AMS*RYPKERHPAYG/QNAGAS ALCPFHRPLEEDTPGMPTGILS FDKS\CAVA\EYGVYV\KVTSIQ\ DWVQKTIA
19223	49591	A	19335	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGSPFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSAVSIMYLVLVLA VQVHAWSLYYSKKLLDSWVH QHTGEEA
19224	49592	A	19336	65	665	GVRGFWAGTMASRAGPRAAG TDGSDFQHRERVAMHYQMSVT LKYEIKKLIYVHLVIWAAAWLL R*AVGHPEALV/DMIRWPCPIQ WE/YPVFC*AFLPSLLGSPFPFPR NNIRLTWVL/YHESSMGIFFSIG SIHFIGQHGDVPWLHSSFYRHG KAYRFLFGFSAVSIMYLVLVLA VQVHAWSLYYSKKLLDSWVH QHTGEEA

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19225	49593	A	19337	71	1265	RCSKSLRMSTFFSDTAWICLAV PTVLCRTVFCTYKKSSGQLWS WMVCLAGLCAVCLLILSPFWG LILFSËSCFLMHTYLSGQELLPV DQKAVLPTGGDCGLDHASKY LDELGFTVFAGVLNENGPAAEE LRRTCSPRLSVLQMDITKPVQIK DAYSKVAAMLHDRGLWAAIN NAGVLGFPPTDGELLMLTDYQR CMVVNFFGTVEVTKTFLPLL* SKGRLVNVTSMGGGAPMERLA SYGSSKAAVTMFSSVMRLELSK WGIKVASIQP/GEGFLTNIAGTS DKWEKL\EKDILGPPPLRVQE DYGQDYILAQRNLLLINSLAS KDFSPVLR\DIQQAILAKSPFAY YTPGKGAYLWICLAHYLPIGIY DYFAKRHFQDKPMPRALRMP NYKKKAT
19226	49594	A	19338	1	861	
19227	49595	A	19339	248	930	DVHQLGNMAVIHSHLWEGLQE KFLKGEPKVLGVVQILTALMSL SMGITMMCMASNTYGK*PLFP CISGYTIWGSVMFIISGSLIAAG I*NTKGLVRGSLGMNITSSVLA ASGILINTFSLAFY\YSITPYCNY YGQPPN*LSMGTMShLKGWV MGMVLLLSVLEFCIAVSLSAFG M*SALLVPPGGGCVNSAITFFT WAETASSTTLNEGLRGTQRFNR QMLPEIYA
19228	49596	A	19340	167	1164	RNLRLPSSALAGVAPSHREPRV RTISQTDRRKDA/PDPARRDRVE LAPAYTSPPRCSANVGTSTRRL RALCPARVRAPLRLPPPASSPLG SEEQRRKVPAAARMRPRAGAG RSTLPWLPAT/WPGLPSLPLYL* ICGGNNSY*R*RKGEQFE*RNSS *DYRYLPSSPASPVRERQPN NGPDDKEKDRPERPSPLDTSPL LDPPAVSDIAGKMSDEFSLADA LPEHSPAKTSASYPDHMLVPTD PAAAGPLGPWGSMSGPWVPG MGGQYPTPNMPYPSPGPYPVPP PPQASGAAPPVPWGTVPGLGAW GPPAPYPAPTGSYPTGLYPTPS NPF

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19229	49597	A	19341	2	716	SDPSPLLDPTAVSDIAGKMSDE FSLADALPEHSPA KTS AVSNTK PGQPPQGWPGSNPWNNPSAPSS VPSGLPPSATPSTVPFGPAPTGM YPSVPPTGPPPGPPAPFPSPGSC PPPGGPYPAPTVPGP GPTGPYPT PNMPFPELPRPYGAPTDPA AAG PLGPWGSMS SGPWAPGMGGQ YPTPNMPYPSGPYPAPPPQAP GAST/ILFHGAPFP PGAWGPAP YPAPTGSYPTPGTLS*FPPGAW GPPAPYPAPTGSYPTPGTLS
19230	49598	B	19342	54	178	
19231	49599	A	19343	3	249	RHKGSPSPHQTQEPSWLHPVDP ALGPQVELPASLVLCARTPQPL GGR*DWV/PGTPAGPQESRAAP VPASAPPSTPRGRGGRI
19232	49600	A	19344	2	504	WAPVRPEPPRRAPPPAPQRVP STTQGLRSAGA/PAPGLAGSYP CSPGYVNAPIDSLYLATFMGIR VKRPPNR/PLCEQ*SFYHLGAGE *PGKSRVPIQFQSPAGDPTVRV V\PRR*SVPTSCATPRSWCCSD T\PGHPLGSPEQLPQPGPAAELP GGVVPRSTPPCPAL
19233	49601	A	19345	3	335	
19234	49602	A	19346	2	447	CACTPQPLGGRWDWAPWSRG RRSSGRLRLHRNPRRRGKAQA WRAA VPRPAPREGS*GGRPAA PSAGPPSPRPPGTPAGPQAPRAA PVPA\RLPPLPAS*GSGLRPSP AQKGAPT VQ/PVG*RAPQVPPK WEPRQRRRRERARAVRTA
19235	49603	A	19347	108	729	QHAGSPQSPRLLSAPPLPGLPL WWHLRSPSAPPLHCGSPFLGWP RLEPTPSACREVWRERHKWEP G/PACGACGPAGVPGGRG/PWW APHSEHPASPAGPG/PMGNLAP GPVAAEGVLSPPAVPAHRCAR FLAGP*L/PFPRGRA WDLQPAM PEPPT\PPWAPV/PAEPP*RAPP APQRPVPS\PPKGAQDWQAAPP AAPVRDPLGEASWAPE

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19236	49604	A	19348	1	816	MWESLTLSRDFLNGFDQNADS GIDNKVQVEVASDEDEELVGN WNERENPFSGEKLKPAAEICIS YKEPNANHQDNGENVARACQ RPLQHPLPSQAQRPRRQRFPG PGSGPTWDLVPCIPGAP/RLD*K GPRKPKSWYSEGQRYESPSFGIP LGSDLFPTNALLLKPYKLPPSR PRDYCGRAAFPRGRVRDLQPA MPEPPTPPWAPVRPEPPR*APPP AP/PAPSPIDHPRAEECEHTAQD WQAAPPAAPVRDPLGEASWAP ESGGDVESLYV
19237	49605	B	19349	4	669	
19238	49606	B	19350	1	930	
19239	49607	A	19351	170	444	
19240	49608	B	19352	1	1122	
19241	49609	A	19353	1628	3591	KGLRLKLCSFVQLRFSIRNFRLG ILTYWKKEFEIVGWPRLEPTPL ACREVWRERREREPLRAALA GQLEFRVGVLAGPSLGAAGQ PCWPRVIRDLAPGPVAAEGVLG PPAVPAHRRRCAGFLTEP*LPSRG AGLGTCSPPCLSLPPTPWAPVRP KPPQRAPPAP/PAPSPIDHPRAE ECERRAHDWQTAPPAALVPDP LGEASWAPESGISDEYITPMFSF YKSIGELKMTQEEYALLTAIVIL SPA WATERHPVFKKRERKKPSN CLEGVIAAAELAVGLPWNLG KFHTGDGTSAGLQGIAPNSVGP GQPAPEWMWGWERLLTDQDK TQGSASFCTATFQDAQKQLLQ ARFIHLSGLWEQQDGLWLSNW LSLKGGQIGGPALTEPLRLSVNR GTWPPKLRDARRRSAGRADRR APTGRVLPGSPGAGPQTTPPPY DWSLRNRRRPAATDPEAQAAA AAA AVGQGRVGPAQIEPSCRPA GRSDPPAPGPEAEVCWVSRLRE PVRSAFAWLRQSRALIGSWGR QGDVAPAFTCPPNAERGATGV RGGWGCWCGRAQLGRRDPAA TRPALNPERYQSPKSMQGLERP HVRNWGIELETLRDAFRPQPSV WRTARGEAGKRKGRLVECLGS QRKVLEGVLLYAVTRGSFPNLF
19242	49610	B	19354	1	412	

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19243	49611	A	19355	951	1453	FQTQEPSWLHLVDPTPGLQVEL PASPVPCAHIQPLGGRWDWVP WSRGWCSSGRLGPHRSPWSGW EAQAWQAAGPEPCPMGRQVRP GEKSSAVPVGQPG/SGHSVHPP QPLARVLSPPLPGASRAGRLLR VWGPPSPRPPGTPAGPQARHTA PVPARASPSTPPCKLR
19244	49612	A	19356	111	658	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPQGAPPPAP/PAPSPID HPRAEECERTARDWQAAPPAA LVRDPLGEASWAPESGGEPTPS GPGVAGSGSTHALTHACTH AHTRAELRLPPPPRPLPPPLSPP /PPAPLLPSKPFSLSTDRISSKSR QQKVFPGRDPEPRGVRAGSW NRTTH
19245	49613	B	19357	1	552	
19246	49614	A	19358	1299	1813	AHFPRAGTGAACSACWPAGVP GGRGLGGPRTRSSRPCWPRAK GDLAPGPAAAEVGLGPAAVPA HRRCARFLAGP*LPYHGAGLGT CSPPCLSLPPTP/SGSCAPEPPRR APPPAPRHPVPSTTQGPWETC LLSIYGNAMNDERAWSLEGFW VLKPSDSWMTLSERTISFF
19247	49615	A	19359	380	905	WIPHWGCRWSCLPVLRALAF LSPWVVDGTGRRGVGSGAGRG GSGRTGAHGVGRLRHGGLQV PSPAPREGS*GPARNRAQ\PGGP ALLGDSVHPPQPLAQVLSPPFP GPAGLAGCSECRGPPSPRPPGTP AGPQAPHAAPVPARASPSTPPL VHLTNDVLRVKVKAFFFTLH
19248	49616	A	19360	1	1052	MGLAERCPLNHLTLTVSSVKCS FLLAHILSVAGACYGVLRGAPH TFPGITCPGCSQENNIKKWAE DLNRHLIQEDTQMANKHLKDA PHRYIIRELQVKPTMRYCHAPT GVAHIQSTNTPNAGEDVEHQEL TFIADGSPVTTRGHMDLVQTSL SRTLGVIRSTGWSACAEFSHG CLAKRLQLLKHGNGNSNSGG NAECITRHCQKPLTGILSFILAL NKVKNTRPFDRCHEGSEKEPS FCVTCPRRPEVNQPSPYMPQPG KSSTHLSVVQLRALEVGEPAF PPVE/PEGPAGLRHPLWL*V*GQ GSGP/SSPPCLSLPPTPWAPVWP EPPRRAPPPAPQRPVIRPPKG

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19249	49617	A	19361	417	1092	KWCSKRTAFSFSLQGGVEGEA RAGTRAACGACGPAGVAGRRG LGGPPHSGQPASPAGPG/PVRDL APGPVAAEGVLGPPAVP/APPA LCSIS/PPGCSCLPAG/PRLRTCSP PCLSLPPPPWAPVRPKPPR*ATP PAPRRVPST/NPRAEECGRTAR DWQAAPPAAPVRDPLGEASWA PESGGDVENLYVQLRDCKYTN QHPVSSSGFVNAPISTLYLVNL VGTWRIFMSS
19250	49618	B	19362	817	1596	
19251	49619	A	19363	350	644	
19252	49620	A	19364	60	1362	SRVEPRVRSASQDSRSRDNGPD G\MEPEGVIESNWNEIADS\FDD MNLSESLLRGIYAYGF EKPSAI QQRAILPCIKGYDVIA\QPQSGT\ GKTATFAISILQ\QIELDLK\ATQ GLGS*APT/RENLAQQIQKVVM ALG\DYMG\AS\CHACIRGAPTC VAEVQKL\QMEAPHIIVGYPLG RVF\DMLYR\RYL\SPKYIKMFV LDEA\DEM\LSRGFKGQIYGHQ KAQAAPPRVVLLSATMPFD\VL EVT\KKFMRGPH\IRILVRKEELT L\EGIRQ\FYI\NVEREEWRLDTL CDLYETPDPSQASHLPSTTRR\ KVDWPHPRRMHALRFPWESAQ HEDMAQKERR/DVIMKEFRLAS SRV\LITT\DLLA\RGIDV\QQVSL SHQLNY/SFPTTREN\YIHR\IGR GGRFGARKGV PINMLTE/EKTKR NLEDIETF\YNTS\IEMPLNVA
19253	49621	A	19365	911	1278	NCGIVISKHLVFTLA*MMCHFL ASLQRKGILKRSASV*AHSH/DP SFHMKIYNAGW\GHRT*HPAGG FAGPPPWGSVWGLAARTRENA PRPALPLPRPAPSGLAHGADGD SNTEKIQSRDNRKG
19254	49622	A	19366	26	743	ETSADMAPSVPAAEPEYPKGIR AVLLGPPGAGKGTQAPRLAEN FCVCHLATGDMLRAMVASGSE LGKCLKATMDAGKLVSDMV VELIEKNLETPLCKNGFLLDGFP RTVRHAEMLDDLM\EK RKEKL\ DSVDLNF\SIPDSLLIRITGRLIH PKSGRSYHEEFNPPKEPMKDDI TGEPLIRSDDNEKALKIRLQA YHTQTTPLEIYYRKRGHSAIDA SQTPDVVFASILA AFSKATS

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19255	49623	A	19367	40	1002	VASGTRTELQDRRFRDTSGDM FPSVPP*EPEYTKGIRTVLLWPP GAGKGTQ/SGETEV*MACSLGY IASNLQSLHLNDSKAPALSAAIY CPRHPNWAENFCVCHLATGDM WR\AMVASG/SSELGKKLEGNL WDGWGNWVE*WKWVSWSSF GEGILENPLVAKNGFLL\DGFPS GPVKARQK\SPMDLMGEGGKE KLDFC*FEFSIP\DSLL\IRRNHKE GLIPPPKKWAGSYPRREFQPLP KEPP*KMNITGGNPLIRRSR**M KRPLKIRPASPTHTQT\TPLIEY YRKRGIHST\NDASQTPDVVFASI LAAFSKATCKDLVMFI
19256	49624	A	19368	793	1152	SGRKRRCGCGQSVKQAPALTP GPPAPVFPIPEAAPACAPHHPGQ GNRRKCNFPVCPT\PKTASSCP/ EPLPPPSLQR*PCPCHPWHLE FSFLDEVTFNFKTFPKRLVSSK MLPLKVGH
19257	49625	A	19369	1	873	
19258	49626	B	19371	1	322	
19259	49627	B	19372	64	2250	
19260	49628	A	19373	20	368	CEARGGSGHGGRAERAGVCGG PAELLPKGSKEEQRDYVFYLAV GNYRLKEYEKALKYVRGLLQT EPQNNQAKELERLIDKAMKKD GLVGM/AlVGGM/ALGVAGLA GLIGLAVSKSKS
19261	49629	A	19374	3	492	
19262	49630	A	19375	62	570	GSRGQWPSEAVLNELVSVEDL LKFEKKFQSEKAAGSVSKSTQF EYAWCL\VRSKYNDDIRKGIVL L\EELLPKGSKEE\QRGFTSFYL ARGGGTTRLQGITEKALKLRSA GLLAAQEPQEQPRPKETGNGLI DKA/L*KKDGLRGAWPIVGGM ALGVLAGTCRSSSDFAVFQ

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19263	49631	A	19376	1	944	MACHLQAGSPGNLVVYFQSKP EGLRTREPMMSVPVQVKGPST RKLMMSEDPLTLGNWHELRS RTAKNGILQVDKQKIVEGMAE LQQVVGKNMDSGVGPVHGG GLTRTGYYLLNPESLQQAFERR QIQGCDEKLACVGKQTLGTWP LSESPSLTRYCRRQLTQGSRL MSLNNAGVPGQTAPDQRSSEG VAAPAGPGEEVGREEGEGAAA GKRQCPCQQGSLCVDTSRPREP KSQAQIPSSSRSSPSSEQQRGQ LPSVREHVEGGQGEERAPHCD GGGRVLLASGLAWLGTENIMD LASSPKDDWGVAVPSRGCERPS TFTLVLPSPIVRRRACSGQPISP GGGQETHGADTSHLTNP*ICLL SKAFCCRDSSGLSK*PVLVRPPPC VPQALPQSPCSYLLLAVALPFP LSSAYPPVRFHSLLCIHEARAS
19264	49632	A	19377	1177	1603	WVSSFSSSSSFPPPPPPPPPP PPSFLPPPPPPPP/PPI*DRARRCQ TSIPLNKLNNKLLLLLLSPRPD DREKFTPQQSARQREPIKGTA SRRGEGPICPTLSLYFLHVFLCF SCLSSQIHYYLRLSTVLVLKNS
19265	49633	A	19378	1	896	FPFSLPPPKMPKGKKAKGKKV APAPAFVRKQDAQE*WLNPLAF KKRP*DFR\IGQ\DIQPQKRPPPL L*KWPR\YIRLQR\QRAILYKRL K\VP\SAITPVSPRALDPANQLLS LLKL\AHKYRPRDKAQRSKQR\ LLA\RAEKAA\GKGDRPNQRD PPVLRARS*HPSPTLVEEQEKL WVVI\HDVD\SELGLSFLA\AL CRKNGGSPYCIHKGKQDLGR\ LVHRKDLAPLVAFTQ\VNSED KRRFWLKLVGSYQGPNYNDRY RYDEIRRHWWGNVGLPKSVARI AKLEKAKAKELATKLG
19266	49634	A	19379	3	491	AKEALDWEEGHQ*QRL*SRN SQLGICGGLRGFRGDRAASVFS R*AEKESVRQL*ARVPGALGVA ARANKHQRRWREGDSTQTATN TVDRRATRGRPMWRATRVAD EEDGDRRRGDNRNPQARTFRPRT SVRRAAGTNNSEGRPTNAGT NGGRGVDIYTVN

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19267	49635	A	19380	1	1501	MRRSTPGVLPAAVGGARVRR VGLSGTGAEAGRAGAMVEKEE AGGGISEEEAAQYDRQIRLWGL EAQKRCHRMKEALSTAPFTDK ETHPKVSLAQVTRSSASVMVY GAFEVIGQRQSSAAKPRRSQSE SLGPEFQGLWEWLPASQHIMRS LKKQDGMGQGYRVSLWEVVG QLIFLEEKVTPEDPGAQFLIRT GSVGRNRAEASLERAQNFNP MV/DMLKVDTEDIEKKPESFFT QFDAVCLTCCSRDVIVKINDQIC HKNSIKFFTGDVFGYHGYTFA NLGEHEFVEEKTAKVAKVSQGV EDGPDTKRAKLDSETTMVKN KVFVFCPVKEALDGWILDACDE MQMAALKRTTSDYILLQVLLK F/RVTDKGRDPSS\DTYE\EDSEL LLQ\GNDVLDLSGISPDLLPEDF VRYCF\SEMAPVCAVVGILAQ EIVKALSSAGTLP/PTTNFFFFR WA*KGEWGLWECLGPQVNSG FGQPQRCQLQHAHLVSLFPFFM
19268	49636	A	19381	2	411	PGTSQGVFSPHRLGGAVRSPCP PPQDSRQASAGGAESQ\LKQRG FPGE*GCRSPVSCAWPQNRMG* GPQHREAGAWSGE*KTPIWLLK QERCNRPGLLVTAELAAPAPRP DGMAPGCGGIRCTPGRPRLLH SGPPSP
19269	49637	A	19382	165	309	
19270	49638	A	19383	1	825	LATQPEGAGRVPSIHPQGGPEA ALQDLRTLGMSSRLHSGKESIG HNSSAGSSSQGPHHPRRKTAIL EKGGKQPHRMLPFSPGLGSSPE PANAGSPDTWLCPP/AAARVL* NPVKPRKGRSEPRSGWASQLPG GDSRLPLRPGTSQGVFSP/APAG *AGKLVLGVLSSLKQRGFPGE *GCRSPVSCAWPQNRMGCRTP GPSPTSPTAAGE*GSRPRRRKPG RVQGLQRDGP TLTQEDALTA KRCPLPVTVPQTPTSTGAAA PGSQPVGAPPSR
19271	49639	A	19384	1	378	

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19272	49640	A	19385	381	1653	QRPRSGTFTMGRKSLYLLIVGIL IAYYIYTPLPDNVEEPWRMMWI NAHLKTIQN\LATFVELLGLHHF MDSFKVVGVSFDEVPTSDENV TVTETK\FNNILV\RVYVPKARKS *STKEGGLFYIPCGGWRRGSYS LIVYDLPSSWTVE\PGSSLVSN HLRLAT*FHFPLQLGELYDAL R*FLRKKVLAKYGCEP*GESGIS GDSAGRGI*LSA\VTQQL\DDP \DVQDPNFKIQS*IYPALSASWM *VLPSYQGKFKFSYFYSKSLQC RFWSEYFTTDRSLE\KAMLSRQ\ HVP\VESSHLFKFINWSS\LLP*E GLLKGH\VYNN\PNYGSS\ELAK KYPG\FLDVRAAPLLADDNKLRL GLPLTYVITCQYDLLRDDGLM YVTRLRNTGVSG*LNNHVEG\ GFHGAFSFLGLKISHRLINQYIE
19273	49641	A	19386	3	667	DAWADAWVPVSSEVAYLFGG CHTCGGLPVAHPMMPRGSRSR TSRMAPPASRAP\QMRAAPRPA QVG\QPPAAAPPSAVG\SSAAAP RQ\GLMAQMATTAAAGVAVGS AVGHTLGHAIT\GAFSGRK*LPE PARP*HHFNQEASG\TPPAQHSK QQRHPLQQPCP\YEIQTVFWE FCPGTRGDIQAL\CEGFNE\VLK Q\CRL\ANGFGPNEEVSTFGRD WKFSSHNLS
19274	49642	A	19387	81	1257	RHQSDQTVPRLSRPHVQSQKSS MAAAAKPNNLSLVVHGPGLR LENYPIPEPGPNE\VLLRMHSVG ICGSDVHYWEYLS\RFGNFIVK KPMVLGHEASGTVEKVGSSVK AP*NQGDRVAIEPGCSPEEN*W NSC\KMGRY\NLSPSIFFCATPPD DGNLCRFYKHNAFCYKLPDN VTFEERALIEPLSVGIHACRRGG VTLG\HKVLVCGSWANRGWVT LLVAKAMGAAQVV\TDLSATR LSKAKEIGADLVLQISKESPQEI ARKVEGLLGCKPEVTIECTGAE ASI\Q\AGIYATRSGGTLVLVGL GSEMTTVPLLHAAIREV\DIKG VFRY\CNTWASGGFMSLCVPKS V\NVK\PLVTHRVSWSRKVLEA FETFKKGLGLKIMLKCDPSDQN
19275	49643	A	19388	2	431	

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19276	49644	A	19389	2	326	ARGSTRLMESRVQHL*CTRKEL TPEVLQEWLDELEEMMLVVH MPRFRIEDGFSLEQLQDMGLV DLFSPEKSKLPGIVAEGRDDLY VSDAFHKAFLVNEEGSEAAAS
19277	49645	A	19390	2	368	
19278	49646	A	19391	1	2123	MAQFSIVGMCLGLFNQSPDGS GVQLFVIMNQVMAANLAETHA ALCPTLSSGTSARFRGKNQFSG GLPQITLSPLAQPCGRLAAMYS NVIGTVTSGKSLPSTSPVPLLL SGFAPLFLKGLQNWQTQTQEG KSPSAAPASSQPQACPTDHVRE SALGACLSLPGEDGKIQKVYLL SLLLIGFWDCVTCHGSPVDICT AKPRDIPMNPNCIYRSPEKKAT EDEGSEQKIPATNRRVWELSK ANSRFATTFYQHLADSKNDND NIFLSPLSISTAFAMTKLGACND TLQQLMEVFKFDTISEKTSQIH FFFAKLNCRLYRKANKSSKLVS ANRLFGDKSLTFNETYQDISEL VYGAKLQPLDFKENAEQSRAAI NKWVSNKTEGRITDVIPSEAIN LTVLVLVNTIYFKVLRMALERP QGLPLALQLTPFFFKWRDRSPE RANGLPKATQGLWKSKEFSPEN TRKELFYKADGESCSASMMYQ EGKFRYRRVAEGTQVLELPFKG DDITMVLILPKPEKSLAKVEKE LTPEVLQEWLDELEEMMLVVH MPRFRIEDGFSLEQLQDMGL VDLFSPEKSKLPGIVAEGRDDLY YVSDFHKAFLVNEEGSEAA ASTAVVIAGRSLNPNRVTFKAN RPFLVFIREVPLNTIIFMGRVAN PCVNLSEALAVLVVNLTTLMK RTHGESLDFMERKRRPAESILL

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19279	49647	A	19392	9	1630	PALCPTLSSGTSARFRGKNQFS GGLPQITLSPLAQPCGRLAAMY SNVIGTVTSGKRKVYLLSLLD SFGDCVTCHG\SPVDICTAKPRD IPMNP\CIYRSPEKKATEDEGS EQKIP EATNNRRVWELSKANF PLLLTTLFSTWADSKD*H*LTF FCSPLSIFQGFLWTKV\GACND TLQQLMEVFK\DTISIEKTF*SR SHFFFA\KLM\CRL\YRKANKSSK LVSANRLFGDKSLTFNETYQ\DI SELVYGAKLQAPGTSRENAEQ\ SRAAINKWVSNKTEGRIHRCS FPSGRPFNELTVLGGGFNTIYFQ GACWK\SKFSPENTRKFELFYKA DG\ESC\SASMDVTREGKFRYSG AWLEGT/QVLVVC\PFKGDDIT\ MVLILPKP*EGAWAKVEK\ELT PEVLAKSGWD*FWREMMLVV HMPRFRI\EDGLQV*REQPAKN MGPLSD\LFSP\RKSPQTPPGIVA EG\RDDPPMSSDAIPRHFLEVN EEGSEAACKYPLL*LPGRS\LNP NRVTFQGGQAFPWV\FIREVPL\ NTIYLHGAELANPCV
19280	49648	A	19393	3	737	
19281	49649	A	19394	1	705	
19282	49650	A	19395	2	757	
19283	49651	A	19396	1	1764	
19284	49652	A	19397	1	710	MAWALLLLTLLTQDTGSWAQS ALTQPASVSGSPGQSITISCTGT NNDVGSYNLVS\WYQQHPGKA PKIMIYEVSKRPSGVSNRFSGSK SGNTASLTISGLQAEDEADYYC CSYTSSRPD\VVFGGGTKLTVL GQPKAAPSVTLFPPSSEELQAN KATLVCLISDFYPGAVTVAWK ADSSPVKAGVETTTTPSKQSNNK YAASSYLSLTPEQWKSHRSYSC QVTHEGSTVEKTVAPAEC
19285	49653	A	19398	1	679	
19286	49654	A	19399	1	743	
19287	49655	A	19400	2	736	
19288	49656	A	19401	2	718	

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19289	49657	A	19402	1	711	MAWALLFLTLLTQGTGSWAQS ALTQPASVSGSPGQSITISCTGSS SDVGGYNYVSWYQQHPGKAP KLIHYEGSKRPSRVYDRFSGSM SANTASLTISGLQADDEADYYC CSFAGSSALRIFGSGTRVIVIGQ PKANPTVTLFPPSSEELQANKA TLVCLISDFYPGAVTVAWKAD GSPVKAG\VETTKPSKQSNKY AASSYLSLTPEQWKSHKSYSCQ VTHEGSTVEKTVAPTECS
19290	49658	A	19403	3	720	
19291	49659	B	19404	1	711	
19292	49660	A	19405	105	858	RRQDSGQSPA WPAGALLTLLT HCAVPGSWAQSVLTQPPSASG TPGQRTVITSCSGSSNIGINDVT WYQQVPGTAPKLLMYSDNHRP SGVPDRFSGSKSG\TSASLGPSV GLQSEDEADYYCGTWGLAA*M VFMSSAGGTTLTVT SQPKAAPS VTLFPPSSEELQANKATLVCLIS DFYPGAVTVAWKADSSPVKAG \VETTTPSKQSNKYAASSYLSL TPEQWKSHRSYSCQVTHEGST VEKTVAPTECS
19293	49661	B	19406	63	756	
19294	49662	A	19407	1	757	MAWTPLLLLFLSHCTGSLSQAV LTQPSSLSASPGTSASLTCTLR DINVGSPIFYWYQQKPGSPQF LLRYKSDSDNQQSGVPSRFSG SKDASANAGILLISGLQAEDEA DYYCSSYVGTNNFGVLFGGGT \KLTRP*GQPKACPPRVTL/FHP PSEEASKPNKA\TLVCL\ISDFLP GKP*QLPWKAA*QPPSLAGVET PPHPPTRSNKYAASSYLSLTP EQWKSHRSYSCQVTHEGSTVE KTVAPECS
19295	49663	A	19408	1	224	YISLPAGVLSLACCTLYGISWQF DPCKYQVEYDAYKL*RLPLH TLTCSRPTDRNRVFRSPHSVRQ QSLGRCLA

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19296	49664	A	19409	235	955	ESTVQVS VFCHRV PARTSSQTA LPVLLG LLGFTVSGPLNLPEPSV IVGN GELVGPQTCLHCGMEIYN G\EN AQ\ DQF*VTELGAGP*EGP VTSYIVIEPTRIGDETARWITVG NCLHKTAVLAGTALLLHPGLR CTLR FIPHHISPAPLGVL\SLACC NL\YGIS\WQ\FEPFACK*QVEVR TPNKLSRLPLHTLTLLPPRVVLV RKDDLH\RKRL\HNPIGTGPPLY YCVK\KIYELYAVMIFK
19297	49665	A	19410	1	764	MRLGIGFACPWKGLADEFDLKI EKQRNQGRLLGFKLQHLVPFTE MEKMGGDRQKHRTAPRQAER RRSGRVSFQPPLQPLDVTLLPG ATREGNCPRASRGRRPSISHCQ ETQGPEGRSDCTIRGVLSSIPAA RPLRK GSGFPTVCEKRPEQGGQ PALGP/AGPA AVPAPAASRTQW GSRCP CGAGARRGYWRGLLGL CNLISPLDPGSPGSGRWGSAGA LSRPADSCPPWWPRAGA*RRG AAAEAGNSPSRCGASRPAAEQS GAFAGPLPSSPSQ*RAPGAEV
19298	49666	A	19411	209	536	TRSSCVTLVC*LAMVSLRVARP HGVPGTMFGKRKRVEISAPSN F/EHRVHTGFDQHEQKFTGLPR QWQSLIEE/SARRPKPLVDPACI TSIQPGAPKEVCSPRASGTRSR
19299	49667	A	19412	124	1983	
19300	49668	A	19413	424	1582	PPWAAVHGDRPHRVPGTMFGK RK/KRVEISAPSNFEHRVH/TGF DQHEQKFTGLPRQW/QSLIEES ARRPKPLVDP/ACITSIQGAPK WGETGSWPPF/RHLP EG*HGPI PGCQREPQRVSHEQ/FRAALQL VVDPGDPRS/YLDNFIKIGEGST GIVCTPPSGKLVAVKKM/DLRK QQRRELLFNERPWQCP*HP/RR* EAQVPLPVLQALSV/LHAQGV HRDIKSDSIL/LTHD/GQVSKEVP RRKSLVGTPY/WMAPELISRLP YGPEVSPGWLGC PAVDSVRCH FQLQRWREMGP SLGSHCQNGA LDKEEGQRPSHTGSLQWGS LG VERTLRVNMYECVHACNSFY L VNKLFQKDSTQEASVTMVPDP DKD GKNRASQKRKAHSQGARR

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19301	49669	A	19414	488	707	TCGEGLSWTRPLPTASSLQVH* SLSAGERPYLCDYPDCGKAFVQ SGQLKTHQRLHTGEKPFVCSN GVNLVF
19302	49670	A	19415	16	454	GPAGRCPADCSEEKEGPSA/GD SGRPPSCT*PWKGLPVMAILPG EAPVPGPGWPEPDAGG\PLWR WGSPSPCAAALHRPSGTTTPGR ALSGPGLERAKQRSRVSPAPR AAPHGHPTHCLPIAGPRPAKD HPAYGPPASCHHHLAAS
19303	49671	A	19416	166	1191	TAGSLVLAARGT*GPPPRARK* GPAGRCPADCSEEKEGPSAETP GTTTPGRALSGPGLERAKQRSP RVSPAPRAAPHGHPTHCLPIA GPRPAKDHP\PTHQKPPRTEGS TGGHCCGPPIFLIPNTSMITVYP SGPVMPAGFTLSPSDTRPSLLN GQEVLRKMNGAVQYLSLCDYII PTCQCLATTVLCSVSMSLTVFA VSYMVELLLLQNAQVHQLVLQ NWMLKALPPALQDPPHVPPRV PRAARTRPAV

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19304	49672	A	19417	1	2481	MRSGLKFGKSAAWPSGQKEK LVFRGKIEEGLEYLHKKKPSAN SQDNGKEASKAFHGPLQQPLLS QALGPDREEWFPGQAPWPHCC VHPQDTAGCIPVVPAPAMAQR CTGTAWVTASEVAPSLDCFHIV LSQQVYRIHRPTSSLHPQYGKA TRHTTPAVSMRAAAGAEPCKA TGADWPKTLGAQPSHPCTMDV GQGFKKDDSGAALAPMAALM GWAGIECLWLFHTEGVNCWP WDLGEKNLLGQPRGPAAVCS LRTLLPASQQPQLLRPWLKDA QVQLGSLLRVQAIGLGGFYIV LSQFIDPSKASYPPWVKNSRHS TAAQPMRAAAGAHECHKATGA ELPKALGAQPSCPCVLDVGQGF KKNDFGAVGLNNWPAGFWNV MGTCKSRLCFVLLSGKKSSFRV EVLQCLDSHTLETYQFYNREV AFEDVLESSQTGLVVQKPQTDR LTKRGRGEATRNLRLGLVPSMP RSLLPSTAQPTAWKCQRGSPY THQDMALIPSPTARCLSPAKEP KQEEVGEKSLLPDPTLPLTDPR LTGSTEQAHAEGLAALMSALR VSHLQGRGGVVTLVDSQLGVI AVSSTQFNKGPSYRLLADVQN RLLPKYDSQKEAELRSWIKGFT GLSIRPDFQKGLKDGIILCTLVN KLQPGSVPKINASV*NWH*LEN LSNFLKAMVSYGM/NPVDLFEA

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19305	49673	A	19418	1	1299	MHQEDLRAWYLDLGLPSHQNE TTDVSVVYERFSLTDATYPKQA KQWDFPFLRVSTAQPTAWKCQ RAPSPYTHQDTALIPSPTARWL SPEKEPKQGEVGEKSLLPDPTLP LTDPRLTGSTEQKKDLAAGPVG SALRRRPPAVSSTQFNKGPSYR LLADVQNRLLPKYDSQKEAEL RSWIKGFTGLSIRPDFQKGLKD GIILCTLVNKLQPGSVPKINVASV *NWH*LENLSNFLKAMVSYGM /NPVDLFEANDLFESGNMQRV VLLALAGKAKTKGLRSGVDIR DKYSKKQNFDDTTMKASQCVI RLQITNKCASQSGMTAYGTRR HLYDPKNRILPPMDNSTISLQM GTNKYASQVGMTAPGTQRHIY DTNLGIDKCENSSMSLKMGYT QVANHSGQVFGLRQIYEPKY QPGGPVAHGAPSAGNCPGPGE
19306	49674	A	19419	135	290	HREEESKSSVFLNPRGVQGTGV GDHRMILGRGRAVLSKE*AAG PRGGRHES
19307	49675	A	19420	92	1058	KGQYLNPNRGKGGPEPPFPPV PPASRSDMAQNKLKDLAARLPA GPRGMGTALK\LLLGAGAVAY GVRESVFNVEIGGHRA\FFNRI GG\VQQDT\IL\AEGFHF\RI\WF QYPH\IYDIRAKTSKKSPLQGS KDLQM\VNISPAKCSRPNAQE LS*ACTSRLGLGLTRER/RCLPSI VNEVLK/AVWVAKFNCLTA*FT QRAPGYSLLDSAGSLTERAKGL SSLIL\DDVGQSQKLSFSRPSYT A\AVEAK\QVAQQAQRA\QFL\ VEKAKQEQRK\ILQGRG*GR GLPKMLGEALSKNP\IGYIKTSQ RFEPAPEIILQRRJAHHRNP
19308	49676	A	19421	3	861	LDDSWEPVHPGCGDFICQWSEE SGLWSTA EVWRERRGREPGLC EGARGTARVPGGRGPPHQSGQ PVPPAPGS*GA*PGPAAVEGV GPPAVPPASAALEFSRGFSLPR CHLVVTKIGKQEDDVSIRKKNR PDYWPAPPEPVAGCEGSDQEQV KPNATLEKHFLTEGTGPRSPSC LSWPPSGPHAAADPAMVPETPE PDRPQLTKKFCEARVMAVGTS NVLGQTLKPSRTGGTSWSWVF YLLTANRLPFDVKKKGGGPSSI KPRPHYDHRLQLQDFKEQVIHFF

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19309	49677	A	19422	808	923	
19310	49678	A	19423	1	339	
19311	49679	A	19424	1	621	
19312	49680	A	19425	3	1836	MAAVEAAAEPVTVVAAVGP AKDEEEEEEEPLPPCEA/LRWAP VLWRGPAWATAFLEEATAEEP GAAPGSPDSDPRTLRLRAER RRLDS/SLLALSSDFAQVQFRLR QVVRGAPAEQQRLLELEDFA LKG/IPDILGYEGPGDPASDEGD GLPGDRPRLRGEDQSEQEKQER LETQREKQKELILQLKTQLDDL ETFAYQEGSYDSL PQSVVLERQ RVIIDELIKKLD MNLNEDISSLS TEELRQRVDAAVAQIVNPARV KEQLVEQLKTQIRDLEMFINFIQ DEVGSPLQTGGGHCECKAGGK TGNGCSRTGSSRTPPGNSRKA EDVTKVRKTGLHLMRRALAVL QIFAVITRLVVPQARSLQPCGRG SRLTETTLPC*R/ELEASVDRVK QLALTAEPHDHVITSANLQDLS L*GKDELTM AVRKELTVAVRD LLAHGLYASSPGMSLGMATIA* LLPAFSSVPEAMHPRELFVKYY HAKNGRAYVES PARKLSQTFA LPVTGGTVVTPKQSLLTAIH MV LTEHDPFKRSADSELKALVCM ALNEHRLVCWMNLICKSGSLIE PHYQPWSYMAHTGFESALNLL SRLSSLKFSLPVDLA VRQLKNIK
19313	49681	A	19426	366	477	
19314	49682	A	19427	3	432	WNSRDAGYEFDICFTSVHLYVAI RTLWTVLDAIDQM WLPVVRT WRLNERHYGGLTGLNKAETAA KHGIEAQVKIWRRSYDVPPPPM EPDHPFYSNISKDRRYADLTED QLPSCESLKDTIARALPFWNEEI VPQIKEGKRVLIA

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19315	49683	A	19428	1	890	MRTRRTPRGEHLSAFSSCVDK ISRVCKSFGLELENSIQTLWAER EQSICLVAAGHLVSSSGMRNW CHARRHAAYKQVLIRHGEVAW NLENRFGGWYDANLNPAGDEE AKRWEQALPDAGYEFDIC/FR TIRTLWTVPD AIDQM WLPVNV SKDRRYADLTEDQLPSCNSLKD TLARALPFWNEEIVPQIKEGKW SDHCLGALVIPVKDGCNLHGD VTTVSSLTPEERALEEPLNRPTN A/P*HQEG*CWESHQKPVPFQT LGCLCEFSRGASRRKQARVVFR ERSNLCRSISGGEGF
19316	49684	A	19429	1	443	RALPFWNEEIIPIQIKEGKRVLIA AHGNSSGAIVKHLEGLSEEAIM VLNLP TGIPIVYELDKNLKPIKP MQFLGDEETVRKAMEAVAAL VCVLESLPALFHGSEMP LGPVQ VYLSLISESCSSCLT LPHGSSVH LSITVLNPF SISV
19317	49685	A	19430	24	1039	AVLALLRGRRGGLLRNLLIPV GAASPARQWPPYKLV LGVRHG ESAWNLENRFSGWYDADLSPA GHEEAKRGGQALRDAGYEFDI CFTSVHLYAIRTLWTVLEMP L SEMWLPVVRTWRLNERHYWG S*PGLN*KQKLA AKHGLRPRLK I\WRRSY\DI\VP P P P\MEPDH P F Y SNISKDRRYADLTE\ DQLPSC\ES LKDTIARALPFWNEEIVPQIKE GK\RVLIAAHGNSLQGHCSRLL EGLF\EEAIHGSLNLPDLVFPLSI ELDKNFESLSSPMQFLGDEETV RKAMEAVACPGQGPRSEGRRG RILSPGCTLPCPVFPSSPSHLA HVTLDHICKTS
19318	49686	A	19431	86	431	VYVSTMSLSCPASELAVRRQR WSSQFQDHPPG PLQRPV*EML LL*PTLDLQPVVPPAVAILSWKP SALTISSQIVTPGLKTRSFTRKT FMKIWNHRQKYQKTMLVMFP RYPSL
19319	49687	A	19432	599	900	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVC SISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19320	49688	A	19433	210	341	HFRKIFTVFQKLKVEYNLLSGH STQQSHPGGTVLL*DLVCPVV

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19321	49689	A	19434	239	464	SPKGGPPNPSHGTFHTRPCEE TTKQALCEEHGCLFHLGAGGLS PKRESAKGDKGGASVHVVCHI S*SPCS*LGP
19322	49690	B	19435	1	838	
19323	49691	C	19436	80	443	
19324	49692	A	19437	1	775	
19325	49693	A	19438	209	469	
19326	49694	A	19439	304	375	NVGE*SERHPCYD*TPREVCPPS P
19327	49695	A	19440	879	1188	
19328	49696	A	19441	615	917	ATWLFISPTTTTCQLSKTLLVPL NFLEKQYLTFLLFLEFPTFSLFF RHTEDHLMRSGCLKVCSISPLS/ PLPPSSSHVRHLTPSLPFAMIVS FLRAPQKLSR
19329	49697	A	19442	674	1554	GQMASSSVSLQQGVPOAADPG WVTAGASLTRA WAAGVQGDG PGTESSISASSRRVLR LGMTRTL LWACVLLWVCILLGLCPAVG PVSISVGPVSYCGVPYCPYPA VGPCPAVGPVPCCGPYPVS/VGP VPCCGPVSCCGPVSCCGAVSCC GPVSISVGPVSC/VLGLCPAVGP VVS*CGP*PAVGLCPAVGPVPC CGPYPS/VGPVPCCGPVSCCGPV SCCWACVLLLGLCPAVGPVVS VGPVPCCGPVPCCGPVSCCGPV S\VVGPVSCCGPVSCCGPVSCC DHSSHLLLLTFTML
19330	49698	A	19443	4688	4824	

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19331	49699	A	19444	1	2274	MLKPLMGGAHRRAAAGARK WDGTAAIISTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDKDAAAICQPSAG VHIVMPGYYSPEMGLLDPATS DGRVIFFLPWQKMTIAGTTDTP TDVTHHIPSEEDINFILNEVRN YLSCDVEVRRGDVLAASGIR PLVTDPKSADTQSISRNVHVDIS ESGLITIAGGKWTTYRSM AEDT INAAVKTHNLKAGPSRTVGLFL QGGKDWSPPLYIRLVQDYGLE SEVAQH LAATYGDKA FEVAKM ASVTGKRWPVIGVRLVSEFPYI EAEVKYGIKEYAC/DCCGYDFT SYSPGLS/EMSRQQRKPYPGLL N*/CGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAENLDRRVPIVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQFTTVSVTARKGS VDPKNSGAQLASPSGSRTGAA GGAACQSRALRLHSSALGWSM GLGAVEHGAVLIGEARAAQEP MEGVGGSGMAGCRSQVLPRG
19332	49700	B	19445	439	1542	
19333	49701	A	19446	2	418	CLSLPPTPWAPVRPEPPRR/CAT PCSTAPSPIDHPRAEECERTVQD WRAAPPAAPVRDPLETGKIDQE IHKYNTPGFTGCLSRVQFNQIAP LKAALRQTNASAHVHIQGELV ESNCGASPLTLSPMSSATDPWH LDHLDS
19334	49702	A	19447	111	215	GTCWELE*RGKPIFWGEIKAS CRNLHKLQGAKC
19335	49703	A	19448	740	959	DLYPHHLSWQSRNAARKRKS* RGQRPIPAIS*GRISQKQQQNVN TSTPSHCRLPYECRPLLHGAQS HRPPKG
19336	49704	B	19449	260	508	

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19337	49705	A	19450	11	490	RLSTSPDPSGAQLASRSGSHTG AAGGAACQSRTRMRSHSSALGW SMGLGAPLQRH*INSSGGSWLV DKESFPVPSALNFSPLGRKSSPC SKVLYMPNPVSHSMIPSGSERS MDTNGSCWYLTCSLAPGRRD TRIRKVFSQGRLLVLTLMISPSV GHSTA
19338	49706	A	19451	42	263	SGVSPMSFNTFTSAPAFNRSWT TCLCPK*HARCRGVQPKDLLL PLQLMSAITSFLAMVSNCLTSS ALPFLA
19339	49707	A	19452	662	1564	GSRICSFQTRSGHPECPCQCHWT RQNHSSIQPHKAA YTKKTTIH PPNRSNSCSSIWCKLQKLYMCG P*GRSFNFSANLHQPKGHSGE RPFÆKNKGRAILLKSHRVHTQE MPFPCSKVGKGYLVSSGLFQH QAIHNEKPCRSAMYGDMFHTQ QGHFKCIDYGEAFSPKDTPGQH QIIHTGEKPYVCTEKECTCTRSS NLIQHKPKGLLSLLVLSPTGN ALFSTLSQLTQLLLTFDVRSDA TFFRKGSGRHQLWLALPEDAR ARVTSVSGTRRRDHGGARGVV CLIHGCVPDTRSSPDVW
19340	49708	A	19453	1	1167	MIREQKVKEVYICAGKKKSHM HLWHNGEKYNRLGRKDRKMT HEGWLIKIPHFGRKYKASGLH WEQMKHMGGRGKVHLEFTEM YVAGRRGEVKDEVLEPMSLTE VYIPTENDREVWRERRLRAPGL CAALEGQLEFRVGVGLAGSAL EAAGQPCWPRAGRARDLQPAM PEPPPASVGSACAARASLRSAAP CSTAPSPIGHPRAEECERTAQD WQAAPPAAPVRDPLGEASWAP ESVMWPPLDSRQSEEVSVSKRH MDATDKIKFPWLKEKRTIEFGE AAGYVCHRRYKDMEPHEKMG EAAKKVHWVQMRSRARDLQP AMPEPPTHSGSCAARASPT/T HHPLLHDAQSHRPPKGLRSAGT WRGTGRQLHLQPQCGIHWVKP AGLLSLL
19341	49709	B	19454	118	559	

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19342	49710	A	19455	26	813	LSHYLACSLRLPSGSRIRSAWLI PSIMLLNYTSPGLPRHRKSENR LDDTARRSPGMAGPGCPPLPGG VPDVRAAYGAPTSARPRVGV PPGGRWPRGARGARSFLKKPFR GTPTQVRGAWQCPPPLTVÆK *PWHPCGRFQGRRHEEKGGRE LGHSKSPPPRRSHYPAGEKGEE ERKEREESSCAGLRRGAEHA QQQSLPGELPAPGDHPGRCVG GQGRSRMGPCS*SLAQHPPVCT RGQREKQERRATNKPVRGAPK
19343	49711	A	19456	497	756	TWLKSGISFPPALFTIAKTWR*P KCPSMIDWIKKMW/HIYTMEY YAAIEKDEFMYFAGTWMTLDT VILSKLSQEQKTKHRMFSLISGS
19344	49712	A	19457	100	819	EWSSVRRILVEKRALRRPHPQC LCFRMKTILSNQTVDHSQKNV DITLKGTPQ*SCKGPRGTLR\RD FN\HIKCGTSALLGKEQQRGFR VD\KWWGNRKGNWATRSLF GSHVQDHDPRGVTTGASGYKD EGPVYASPSPHPTVVIPGRNGSS LLKSRNFLG\EKYIPQGFRMKTR VLLCSVSQSPEKMKLILE\GNDI\ ELVFKFQRALIQQ\ATTVKNKG\ IRKFFGWVSMLEKGTVPGLI
19345	49713	C	19458	395	574	
19346	49714	A	19459	1	1476	
19347	49715	A	19460	2	323	
19348	49716	A	19461	539	711	HRFPQDRKAGECLLHEYEDLV PIRDTLRLFPGGRYLPRAKHVA PSEPDPGWLVLG*FYC*FCHSP ALLSGFCLAVNVYRERSV
19349	49717	A	19462	66	2873	SARTISYDYYQNWGRDGGPRSS GGGYGGGPAGGHGGNRGSGR GGGGGGGGRG/WQGPASRAPE RPRNRHVVREKTGAEEQGSWR GKREL/LVHMDERREEQIVQVL DSGQAENG*RVRTTDF\RFAPPE DHGYGTEVSTKNTPCSENKL/G HPGKEVDKSRKKNV/SESGTDH ILTRDSEYLLQENEPDGTLDQK LLEDLQKKKNDLRYIEMQELV NLIDNHQVTVISGETGCGKTTQ VTQFILDNYIERGKGSA

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19350	49718	A	19463	1	2112	FRKTTRRLRKVKGRTAGCARF RKWLLRQHGRLTLGLICNHTSR MTRCRWSAESDSGDEEEEGPIV LGRQKALGKNRSADFNPDFV FTEKEGTYDGSWALADVMSPL MKKRAATTLHEKIEKARKRRK TEDKEAKSGKLEKEKEAKEGSE PKEQEDLQENDEEGSEDEASET DYSSADENILTKADTLKVKDRR EEEEERTGSRRI*RCIS/ATMKT SSFQDMNLSRPLLKAITAMGFK QPTPIQKACIPVGLLGKDICA\C AAPGTGKTPPFALPVLERLIYIP SPGSSL/TRVLVLVPTRELGMQ VHSVTRQLAQFCNITTCLAVGG LDVKSQEAALRAAPDILIATPG RLIDHLHNCPSFHLSSIEVLILDE ADRMLEDFEEQMKEIIRMCSH HRQTMLFSATMTDEVKDLASV SLKNPVRI FVNSNTDVAPFLRQ EVIRNRPNREGDREAIVAALLT RTFTDHVMLFTQTKKQAHRMH ILLGLALGVQVGELHGNLSQTQ RLEALRRFKDEQIDILVATDVA ARGLDIEGVKTVINFTMPNTIK HYVHRVGR TARAGRAGRSVSL VGEDERKMLKEIVKAAKAPVK ARILPQDVILKFRDKIEKMEKD VYAVLQLEAEKEMQQSEAI NTAKRLLEKGKEAVVQEPERS WFQTKEERKKEKIAKALQEFDL ALRGKKRKKFMKDAKKKGE
19351	49719	A	19464	354	446	RQHAH*ESSPLPNLTYPGTQILR KAAGTSA
19352	49720	A	19465	42	388	
19353	49721	A	19466	177	497	
19354	49722	A	19467	271	773	TAMSSEEGKLFVGGNLNFNTDE QALDHFFSFGPISEVVVKDR ETQRSRGFGFITFTNPE\HASSC Q*RSQ*TGEVSWNG\RQIPLLDH AGKSCSGEPRGRWALGPMGVG SQLILEVVGDDQGYGSGRYYDS RPGGYGYGYGRSRDYNRNQG \GYDRYSGGNRYRDNYDN
19355	49723	A	19468	2	414	GRVGPPRRAGGPRASAAGDPA RGGAAPKMSQTAMSETYDFLF KFLVIGNAGTGKSCLLHQFIEK K/WSVTRSYYRGAAGALLVYDI TSRETYNALTNLWLT DARM LAS QNIVIILCGNKKDLADREVT LEASRFAQEN

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19356	49724	A	19469	397	445	GHRGAHRPRTLRSVVVRRRAHR CSYSGIWD/TAGPDRFRSVTRSY H*GRPGALLVYDITARETYNAL TNWLT DARM LASQNI VIILCGN KKDL DADRE VTFLEASRFAQE NELMFLETSALTGENVEEAFVQ CARKILNKIESERMGSGIQYGD AALRQLRSPRAQAPNAQECCG
19357	49725	A	19470	2	559	
19358	49726	A	19471	1	483	
19359	49727	A	19472	95	352	RKATKMATIWASGTPKQPCPR ELLAQERRQTRTRYNQ*DQ*QE RRSRQRIMGVGC LHM LRSEKA PQQR SFAHCTPKSSRPSARLT
19360	49728	B	19473	247	1364	
19361	49729	A	19474	422	877	CHTQTQ*QHTP*QPTPIDMAPTS HARMPFH THFLTQILTLVSRSP DPG/PHGGKVPTRIPPAQPWG PSTLPSSSFLGPPRPFPSPVPGP GGENRK PFTSPP*A*GFPGPPSG P*AGGEG/PPVVG RGATPSPTP SPACGPLKCWWHLIKN
19362	49730	A	19475	168	522	LALHPT RPLIPATDDEV\TVTED KINAPH*KQPVVNVEPFAAPGLF AKA\LANVNIGSLICNVGAGGP CCQPAGGCTQPGGSCPLHCWL LPA*GRRKWEAKKEGFRGSFD* LTWGFGSF
19363	49731	A	19476	1	328	
19364	49732	A	19477	1	1204	MASRLLLNNGAKMPILGLGTW KGSILRVGFGSSSREPPPYRGQP LMGGPPVRILGPSGRPKRHNR GRRGK WASQTGGPRAQTGTWS RRQGQVTEA\VKVAIDVGYRHI DCAHVYQNE NEVGVAIQEKL R EQVVKREE\LFIVSKLWCTYHE ERGL\VKGIACQEDTSSDLKL\ D LPGPLTLIHWPTGFKPGKEFFPL DESGNVGPSDTHISDTWA\AME KLVD EGLVKAIGISNFNHLQVE MILNKPGLKYKPA\VNQ\NECHP YLTQEKL IQYCQSKGIVVTAYS PLGLS* TGPWPKP\EDPSLLED P RIQGGSQPKHNK\TTA\QV LIRG SPCKRNLVVIPKSVTPER\AEN FK\VF\DFELS\SQGYDPP*LSLPT RNWR\VWPCW SCT\SHKDY P LPMKEVLKA
19365	49733	C	19478	300	489	

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19366	49734	A	19479	243	471	CDHLQVSRPRIPATVPVEWKRS EMDSKEEEKEKKEKKEKRRRR *RRRGKEEEEERRRRRKRRRKK RGRKK*IKKRV
19367	49735	A	19480	1	365	MGLYKDLLDTRYLFYLVPGYG LTQIELEVIAKDSAPVGTTPRV GLKLEMGIYLSGHLDFIFAMP FKIKDILSLKKEEEK/ERRRRRR RRKEEEDEEEEEEEEERRRRR RKRRRKKKRRKKID*KKEEKE EEEGEEGKKKKMKKKRKKK KKKKGGGGGKGGERRRGRKK
19368	49736	A	19481	96	508	PAGSLVCPNQCSSARLFSSFFCS SAVMSASPAVGKRGWAELTGS FLPKPPLKTLGSGREDR*GQVW WLTVPVIPALWEAEVGGSLGQE FETSLGNMVKPLLYWLGSNGW LWKLGRRLWQLLWLQDDWPT RGSILVL
19369	49737	A	19482	3	1013	SRPSWGTHWNEYARRLTLAPS WPLP*GHPVSPSLRVSC/PHY ESVLEKKGPCDRDYKKFWAGL QGLTIYFYNSNRDFQHVEKLN GAFEKLTDEIPWGSSRDPTGTHF SLILRNQEIKFKVETLECREMW KGFILTVVELRVPTDLTLALPGH LYMMSEVLAKKEARRALET CFLKVSRLAQLLLEARYPECN LLLRPSGDGARQVRVGHHAADA QRDA/PWFRHYKVEAGRGP VIRCGTAVLLHLPWTTVVNYF VSHTKKALVPFLLEDYKVL GYVEADKENGENVVWAPSAPG PGPSPLHKVPPSRCQPASSQDKL PPLPPLRNPGREIT

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19370	49738	A	19483	63	1496	LISAMAC\ARPL\ISVY\SEKGESS GKNVTLPIAVFKAPIRPDI\NFG SHPNLRKNNRQPVWCQN*AG HQTSAE\SWGYWPRAVGSKFP R\VRGGGTHRS\GQGCLETMC R\GGRNVLHPTKTLGRRWHRR SSTQPKKRIRPSGSAPGCPQLP ALGHGLKGHLY*GKFPETSFV* VER*KLKG*QEEPRAVFAPLR KLKRPGNDIQKGSMASSAK*RA GQKAKLRKPVARIPAAGAPCI\ YNEDNGYSFKAF\RKHPWGLL MLNC*GKLEHF*KLAPLVGHV GRFLHLGLESALREV*DDLYG TWR*SHFPLQGVNLPISFWHK \M\NTDS*AESLKSPEIPREPLRA PR\KKIHSQSS*RRNPLEKL*EIM LKA*TPFAKAHAAGTPFFGQAR N\HKLRVDKAAAAA/ANLQA NSDEKAAVAGKKPVVGKKGK KAAVGVKKQKKPLVGKAAA TKKPAPEKKPAEKKP\TTEKKP AA
19371	49739	A	19484	3	730	KRLPKMAEVQVLVL\DGRG\HL LGRLA\AIVAK\QVLLGRK\VV VVRCEGINISANFYRN\RLKY LGFSPPSGMNTNPSRRPLTTSG APSRIF\WRT\VRGMLPPQNPSG GQGRLLDRLQGV*RASPPPYGQ EKSGMVVPAALKVVRLKPTR KFCLIWGR\APEVG\WKYQAV TAPPGGERGKRKAKIHYRKKK QLMRL\RKQAREETWRKKIDK YTEVLKTHGLPGLSPIKTVNSS KKKKKKRAAA
19372	49740	A	19485	1	660	PTRPRTRGRRTKSTPMKGLGA RYREYKV\VGRCCLPTPQNATRG PLLPACEIFAP\NHVVAKVPAF W*LCILS*KKMKKFFQGKIVYL WGKVF*EGSPLRVERTFGDLGL RLLTPRERAPHNIVTGEYRGP* PTAGGCSTQLLTRDNGVARHR RPEAHFHFRFMEGWEGDRGP/C KIPPGGLVKASSNDSKIKVSRW PHRVLA\AFRNKARFTTKRPNT

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19373	49741	A	19486	51	471	EAGRLPGNILLDSIMACGLVAS NLNLKPGECRLVRGEVAPDAK/ S*VLPARCVHGILSDRLVGQWG WSWPRWPHAHPLPPSFVLNLG KDSNNLCLHFNPRFNAHGDN TIVCNSKDGGAWGTEQREAVF PFQPGSVAEVC
19374	49742	A	19487	59	527	ETQSWPCGLVA\SNLNFNTLES CLRFPKPSWLPDA\KSFRC*NLG QRPPTTWCLHFQPSASTAH\GS ARHASLCNSQGTAGHEGGPTQ REAVFPFQPGKCCRGVAFTFRT RANLNRSSLPDGITEFQVSPNGF NL\EAINYMAADGGLSRSKCV AFD
19375	49743	A	19488	2	440	KQQCRDTGDEVVCSCFVGYQL LSDGVSCEDVNECITGSHSRAF GESCINTVGSFRCQ/RISSCATG YELTEDNSCK\DTLGSRFCRPKL QCKSGFIQDALGNCIDINECLSI SAP\CPIGVTCINTEGSKCQKN VP\NCGPLVNHLKE
19376	49744	A	19489	2	2061	
19377	49745	A	19490	2	2120	
19378	49746	B	19491	63	255	

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19379	49747	A	19492	2	1941	PPPMERAAPSRRVPLPLLLGG LALLAAGVDADVLEACCADG HRMATHQKDCSLPYATESKEC RMVQECCCHSQLEELHCATGIS LANEQDRCATPHGDNASL\EAT FVKRCCHCCLLGRAAQAQGS CEYSLMVG YQCGQVFQACCVK SQ\ETGDL DVGG LQETDKIIEVE EEQ\EDPYLNDRCRGGGPCKQS\ CRDTGDEVVCSCFVG YQLLS GVSCEDVNECITGSHSCRLGIES \CINTVG\SF\RCQRNSSCGTGYE LTEDNSCKDI\DECESGIHNCLP DFICQNTLGSRFRPKLQCKSGF ITRML*GNLLLDIQWSVLSIQLP RCPIGD*HG\NTEGFYNVPEGT CPNCGPLGYHLQRGRGTRCV\D V\DECAPPCLSPVGKG\HR\CVE LFPGSFPLAECKDGV\TIFDGISR DVLFDVQRSCQRLPRGACC\GH K\CTENTLGSYLACSCSVGFRLS VDGRSCEDINECSSSPCKPGSVA NV\YGS\YQCY\CR\RG*PASAIV GWEFTCERTFDGVAALPHRGH TFWFLTAGIQTSWGSFPVAACP SSGLTGWAPNGPATCQ\DI\DEL C*LGIHNCFHSTEDLVSNI PGAG FRCLGLSSCPENYRRSAAT*S*G NSCMRAIGAGWEKEKGKLAGS
19380	49748	B	19493	123	237	
19381	49749	A	19494	285	456	VINKRLVCTRLLRRKWSCLQPH RMM*VQAGSRGSQPKYHRHE MGWTGHTDTPPHRL
19382	49750	A	19495	383	693	NFLPAQPCLSAPPS*S/RSLLDNS PLNCKAFHSSSHLLKLESCSE NSPGPLL\QPGGTCLGACPGCFS FSPGISAGKPLSKAASPPVCTGS GAETSTTPPSPLR
19383	49751	B	19496	28	236	

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19384	49752	A	19497	1	927	PAAPQVAGRLGLGCPLHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASPFRQLLPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGSGCGSLHTDGDKAF VDFLSDEIKEERKIQKHKTLLK\ MSGGWELELNGTEAKLVRKVA GEKIPVPF\NINNSIPP\TFDGE TLARARRFEDREPELTSLPKFV VE\VIKND*WQERPLVD\VHYP EDEVGQEDAESEDFSI\REV SFQS\TGSEWKDTNYTLNPDSFW TGPLYD\HLMGFP*PNRGVDNTF A\DE\VELSTAPRSPGVPLPFP
19385	49753	A	19498	3	342	LDTNLPANRVPAGLEKRLCAA AASILGKPADRVNVTVRPGLA MALSGSTEPCAQLSISSIGVVG TARDNRRH\GAPFFGFSPRELAL GQDRILIRFFPLESWQNGKIRTGM TFL
19386	49754	A	19499	3	520	SSARAVSVPLPAMPFLELDTNL PANRSARGGWRKRLCAAAAS\ LGKPA\DRVNVDRYAGGFAIGA *AGST\EPCA\QLSISSIRRWGT AED\NRSHSAHFF*VSSPRELSP GARDRIILFRFFPLESWADWAR *GTVIDFFMIWGTEGFQGH LVNLAASFQKRSSWAEVKGLG
19387	49755	A	19500	7	355	
19388	49756	B	19501	172	479	

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19389	49757	A	19502	1	1656	LEDPDSSSRPRRAGSGHSASFPP PPLEQLWRQVKTLNPKAEVAR AQAALAVNISAARGLQDVLRT NLGPKGTMKMLVSGAGDIKLT K\DGNVLLHRNCKFQHPTASLI AKVSNKPQE*YNLVDGTDFLIV LINWESLLKQ\DL\ISEGLHPR IIT\EGFEGAKEKALQFLEEVKV SRE\MDRETL\IDVARTSLRTKV HAELADVLTAEVVDLSILAIKKQ DEP\IDLFMI/SVIMEMKHKSETD TSLIRGLVLDHGARHPDMKKR WRDAYILTCNVSLEYEKTEVN SGFF\YKSAEEREKLVKAERKFI EDRVK\KIIELKRKVCGDSDKGF VVINQKGIDPFSLDALSKEGIVA LRRAKRRNMERLTLACGWG/M PLNSFDDLSPDC\GHAGLVYE YTLGEVEKFTFIEKCN\NPRSVTL LIKGPNKAAHTSLRIQRWQ*GDG L*GA\VKNAIDDGCVVPGIAGA VGSGQWAGSPGFKHKPSC*RA RAQLGSPKHLLDAFAHYFPKVL CFRNSGFLT\QGNIKLKFKAEVH SESG\QLVGVD*TPGEPNWWP ARSKAVWG
19390	49758	A	19503	2	424	EGPVMAPPNPGPATLGGPGDP DLGRLPLHEVFLHIRVPARPRG APLHRRGLRGRHAVRAVRQRR REPEDGAAGAVDRAGGAGVLG RGDRESEGLTD*PREPADRAP LLQPERGRFSHPLPTLTCAPSPII FPVAERWG
19391	49759	A	19504	3	174	
19392	49760	A	19505	2	153	LPLHEVFLHIRVPARPRGAPLH RRGLRGRHAVH*PSEPGDPARL LQPERG
19393	49761	A	19506	3	354	EDGRHGAPNPPPATLGGPGDP DLGGLPLHEVFLHIRVPARPRG APLHRRGLRGRHAVRAVRQRR REPKNAGAAGAVDRAGGAGVL GPGDTEYEGPLTD*PSEPGDPA RLLQPERGR

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19394	49762	A	19507	3	1246	GSTHASARMAVMA PRTLPPAT LGGPGDPDLGGLPLHEGFLHI RVPARPRGAPLHRRGLRGRHA VRAVRQRRREPEDGAAGARG* EARKGPE*LGRG\NTESEGPTHR LDPSEPGDPARLLQPE*GRFFTP FQIMYGC\DVGSDGAFSSAGYP QERLTNGKDYIALNE\DLRSWT AADMAAQITKRKWETPPMRRR SLRAYLDGTCVEWLRRYLENG KETLQR\TDPP\KTHMTHHPIS*P *RPL*RCW\A\AFYPCGDHT*P WQRDG\EDQTQGHGSLLETRPA GAG\TFQKWASMVVPSGQEQR\ YT\CHVQQ*RVL PKPLTLKM/W EPSSQAHPSPIRGASFAGPWFSL GSL*ITG\AVGRCW*C*RKEQLR WRRGER*KKEGAYSQGCKASD QCPGASDVSLHSFVKVLRQLAL
19395	49763	A	19508	1	392	
19396	49764	A	19509	1	220	
19397	49765	A	19510	3	500	
19398	49766	B	19511	28	134	
19399	49767	A	19512	1	1662	MAASVVCRAATAGA QVLLRA RRSPALLRTPALRSTATFAQAL QFVPETQVSL\DNGLRVASEQ SSQPTCTVG VWDVGSRFET\EK NNG\AGYFLE\HLAFKGTKNRP GSALEERRWRAWGAHLNAYST REHTAYYIKALAKELPKA\VEL LGDIVQNC SLEDFTD*GRNV DV ILREIMQEN\ DASIMRDVVCNYL HATAFQGVPLAQALEGPS ENV RKLSRADLTEYLSTH*QG PSKW CWAAAGREWEHQQLFR TFAQE GTSVGIP\WTYAEDA VPTLTPCR FTGSE\NRHRDDALPFAHVAIAV EGPGWASPDNVALQVANAI\IG H\YDCTYGGGVHLSSPLASGA VANKLCQSFQTF SICYAETGLL GAHFVCDRMKIDDMMFVLQG. QWMRLCTSATESD\VDRGKNIL RNALVSHLDGTT PVCEDIGRSL LTYGRRIP LAEWESRIAEVDAS VVREICSKYIYDQCPA VAGYGR SLGLPFHLC SRTA AQLTEQPVK APSSSPQSPGCQGVLAQKTC PSS SLTACQGA FINTLHPSGPIEQLP DYNRI RSGMFWLRF

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19400	49768	A	19513	2	1693	AQSTLARRNRADCSWKMAASV VCRAATAGAQVLLRARR\SPAL LRTPALRSTATFAQALQFVVPET QVSLLDNGILRVAISEQSSQPTC TVG\WIDVGSRFETERN/DSGA GYFLEHLAFKGTKNPALAVPW EKEVESMGH\NAYSTREHT AYY\KALSKDLPKAVGALGDI VQNCSEDSQIEKRDVILREM QENDASMRDVVFNYLHATAFQ G\TPLAQAVEGPESENVRKLSTA- DFTRYL\STHYKAPESVLPQTEG VRTEQLLDL\ARNHRVHIP*TY AEGAL\PTITPCRFTGSEIRHP*D\ ALPFAH\VA\AVEGPG\WPAPD N\VALQVGNA\IGHYDCTFGG\ GVHLS\SPLG\SGACGPTKLCQS FQTL\NICYAEDGLCWVHTLFC DRMK\IDDMMFVLA/QGHWMR L\CTSA\TRSEV\ARGQKNIPQK MPLGISS*DGNYSLCVEDITPAA LLTLWARRNPPGLKWES\RIAG GGFQVVVR*DLAPRYIYGPSCP A\VA\GYWPH*SMLPDYNRIP*P ACFWVAFFRAGKPMVKQKGR GGGLWSPPPPQTQHFRLLLTCC
19401	49769	A	19514	46	422	
19402	49770	A	19515	568	1567	GPWAANGVVLAFFPCLGSPAP HLAPQKAVPPKWGISSLCSEHF HIYQVGGVAFGRIRFLSSTDF KRRAGGSGSLMSQEEKHELSE KIRSQIMDDHARPLYTMSNCP CWAGALGPQESKCSRGRLLHR AFPSL\TLLLAGQATTGLLSCY QQQGAGWDKLDHRPRNLAA WEEPCGMEAFPKPSQSLVEAKI AQLATPGLLDCKAACPWGAPC PRGPMQNATKVIGNM\TEDHV DAPGSRNAEPP*KVYPP\KGSF P/EKNLRHLKNTMETIEWKAFE N\WMHHWLLFELSKQSLWEQ/ QSPLDAPPK/ENSLELEDPSGL GVTKQDLGPVPM
19403	49771	B	19516	1	1428	

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19404	49772	A	19517	1	2293	MARSEAAAAGPGPGPPGLAAR ERRGGRGCVRG CERASVRVWS VALRRARRAPARPYVARCRRV RRPARVAIGCGGVSSPAGVSGC ARVSPERPPLRLCVWALSRAHG GAVCRAGPGPDSLKRGLTSHPP AFPLHHGSRTLLLGLSPPPAAL PFLLLLWAGHLVAS/ACPGRCIC QNV/SPTLTMLCAKTGLLFVPP/ SIDRRVVELRLTDNFRRHFAN MTSLV/QLTESRNTIGQVAAGA F/VDLRALRALHLDNRLAGC/ GGDQLRGLGNLRHLI/VGNNQI RRVESAAFD/DLLSTVEDLDLS YNNLEA/LPWEAVGQMVNLNT LT/LDHNLDHIAEGTFVQLQSW A\RAQAAHPLTVSFGGNPLHCN CE/LLWLRRLTREDDLET CASP N/NLTDYFWSIPEEESCTRCQR FCG*ASLVAAELTSNSVLIRW/S TQRPVPGIRMYQVQYN/SSVDD SLVYRKYSLSTYMNPTRMIPST SQTFLVNDLAAGRAYDLCVLA VYDDGATALPATRVVGC VQFT TAGDPAPCRPLRAHFLGGTMII AIGGVIVASVLVFIVLLMIRYKV YGDGDSRRVKGSRLPRVSHV CSQTNGAGTGAA/AGPGPAGPG PLRGAARGGVP/WLPPSPSRPR PWRPR/LASAEPEVVLGRSLGG SATSLCLLPSEETSGEESRAAVG PRRSRSGALEPPTSAPPTLALVP
19405	49773	B	19518	97	255	

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19406	49774	A	19519	1321	1728	EHAHDRDLHHAHYVQATLVR ASLREAVVGSPTDAWLQQR TARSSASLLARNRPATSVWLPRA GFIAGTGRRRERGSEGWEGG GAGGTGAGLSAHSQTSACEGS/ CGGSAGRGRCLLSAATPPLQPP RPAPPTAGLVQPRQVPTAPPRA SAGNEHHQGWSGRL*KSLAAA RVGEAPGKLP RPDRFRKQSNGA LARASLRVSAQPGTCSSSAAAF PPLGPAPLAAPARSCDESGPRQP DGRGGPVPGQQQQRGA/ESEPCA AATRRPWVNRRTSRREARTS VACT*CAWCRSRSCACSHSPWS SASSSSAAICSSSPRA*STSS*RT GGRLRRWRRWSWGPTDPPYAP AATAPTPAHFASP/ACAPHYQR LGEANLSESIISLD/CRPFGKKRP VSPSPSESPHAWQSEESAQTLN SAESGKKRAIRAQNFG/RLLLT WNAGRPTVRRPFSTRRWAKLW GQVERAGRGETQRH*SPCDRKS DLLKATQQTHGVSQIRVRVRS PFLSLLPPCPRKGGANKIPLNCKR ARFKKGFVFCLEIQMFE
19407	49775	A	19520	192	447	
19408	49776	A	19521	1	591	
19409	49777	A	19522	281	421	
19410	49778	A	19523	174	512	
19411	49779	B	19524	67	1166	
19412	49780	A	19525	1	1620	MGAKDGRLLSESSQGLSSCGAS LVPFCVSKSRLLMKTPVRLDKE TVSTVDSGAPTDLAQLPTVLKQ PCCSVMASGQFVNKLQEEVICP ICLDILQKPVITDCGHNFCLKCI TQIGETSCGFFKCPLCKTSVRK NAIRFNSLLRNLEKIQALQASE VQSKRKEATCPRHQEMFHYFC EDDGKFLCFVCRESKDHKSHN VSLIEEAAQNYQGQIQEQIVL QQKEKETVQVKAQGVHRVDV FTDQVEHEKQRILTEFELLHQV LEEEKNFLLSRIYWLGHGTEA GKHVYASTE/PTVERSQEAH*FP VCLLASVDEISGQGASSQDTKT FDVASEELHAALTAHPDLILS QDEIVTLNLASQGSQKRGNPR RFYRRGFLEVEPLTGVELHSS GSQCQALIESGSREDLPVCPNK
19413	49781	A	19526	203	359	

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19414	49782	A	19527	135	466	DPAGSSAASMSSAAGLCALTPP /GLLSLGLLLLPLVVAFASAEA\ EEDGDLQCLCVKTTLPGSVPGH IHQLGG*FKGRDPHCPTCPT**A TVEGMGRKILLGTWQAPLLQG
19415	49783	A	19528	46	468	TGPTHASAAILVPRSLHKMPGE ATETVPATEQELPQPQAETGSG TESDS/GKSPASDTYIVFGEAKIE DLSQQAQLAAAEKFKVQGEAV SNIQENTQTPTVQEESEEEEEVDE TGVEVKDIELVMSQANVSRAK AVRALKNNS
19416	49784	A	19529	337	509	ISQQLLVVLGINLRSWLPQKL CKYLKQDVLTA DL SVEVPEFC PFVDHLVVALEEEGPAL*GHPA SDTYIVFGEAKIEDLSQQAQLA AAEKFKVQGEAVSNIQENTQTP TVQEESEEEEEVDETGV E VKDIE LVMSQANVSRAKAVRALKNNS NDIVNAIMELTM
19417	49785	A	19530	91	1019	GELLALLGHRVPTRPWASGQK GVCGWCPGKSTLQGLRCGPTIR ACRDGSSCSVEGGRGVRLVLG TASQDPEKEMPGEATEPVPA\T EQGVAASPRAETGSGTESD\SD ESVPE\LEEQDSHPGQPHNKAQ AGRQQSEIDEDPVS\KAKQSRN* KEGPGRAMSQTGVFGQVTGVT KEFTIRKSKNILLCHPPKPDVY QGAPASRYFTIVFGGSPRSEDLS PSKHNLASCLRNSKFQGEAVSN IQENTQ\TPTVQEESEEEEEVDE TGVEVKDIELVMSQANVSRA KAVPSPEERTSNDIVNAIMVSV
19418	49786	A	19531	1	261	MWGHFHSHPGTGQARA YTDTS GSPILIMHVNRGRHSEIPVLER NLLHFRMDAST*NLGMSSLME AILKNQFRHVS LAVSFAFSGEK
19419	49787	A	19532	277	349	
19420	49788	A	19533	792	1014	

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19421	49789	A	19534	849	1752	GESRGWERRKCVRPLSSYATHL SVCDCHIGNVREGADPAGGAG *L*GARQQQTHTHKPAKATQR GEDREEKKRETKREERLGQQE NERDERGRREKEPRNRGTRRRE AEKGRRR/ESEGKREEKGEEER QERQQRAREKRRGRGARRRG REKKKTQRPRTQAQRPLKKIK DYTHHTTQTPTQQHHTHTTKH KQPHTNNTTVFLFFFLAKEHR RAARKQHEPERGRGGGSKAGA KIKHTSIAAAADRRHDRPTQRD TRRKEGRRAQSGKHGRTAHKT EAGGGIPVHSTSRVQVILLQPP
19422	49790	A	19535	139	470	
19423	49791	A	19536	2	83	
19424	49792	A	19537	32	434	NRRKGA\GPVFORAT*KH/RV*R AGLRAVDFAERHGYIKGIVKDI IHNPRR/GAPLAKVVFRDPYRFK KRTELFIAAEGIHTGQFVYCGK KAQLNIGNV/LP/VGTMPEGTIV CCLEPRLCRRKRTSAEGLNKV CVYAT
19425	49793	A	19538	10	443	
19426	49794	A	19539	63	376	
19427	49795	A	19540	170	368	
19428	49796	A	19541	175	427	
19429	49797	A	19542	1727	2262	
19430	49798	A	19543	131	596	
19431	49799	A	19544	695	1337	GFGTQGERRRQCRLRVTPQLG ASSATQKTPALPETPVKAEQSC TLLPSRTPGHLQPRLLDPSPW AVLIRG\QRKGAGSVVRRATLR HGK/GAVRLLRRWISPERHGY IKG\IVKDIHRPRSRRAPPLRQR WFFRDS\YRF*ER\TELFIAARG AFHTGPSFVYCRQERPSFNIGQ WCSPVGHHCLEGYNSSCLPWK EETLETGKAGPGAFKGN
19432	49800	A	19545	1	813	
19433	49801	A	19546	227	381	
19434	49802	A	19547	135	740	PQPLPPPTSMARHVFLTGPPGV GKTTLIHKASEVLKSSGVPVDG FYTEEVRRQGGRRIGFDVTVVR HPGGLLSRVGLEPPP/RENVNAE LGSYVVDLTSFWSSWALTRLE GM*ADCQQWAQGQRCVIDEE LGKMEALSVK\FSFKAVRQTL YPRDI*SL/VHKSQVPKGKPLAL VEEIRNRKDVKFVNTQ\ENRN HLLARYS

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19435	49803	C	19548	251	574	
19436	49804	A	19549	2	450	
19437	49805	B	19550	721	3048	
19438	49806	A	19551	3	396	
19439	49807	A	19552	2	450	
19440	49808	A	19553	2	1152	GPPLHCTRAAGIRHEAPLGLAG LCRAADAGLCSAGWGFVKVV KNKAY\FKR\YQVKF*KTPERV KRDYYARKR\VIQDKNKYNT KYRMIVRVNTRDINLSRLLYA PV*RGDMDSLAQR*LHTELAKI LVVEGLALTNLLPAALFVPGPA CLAPQAFLQ*VLAMDKDLLEG PSWS*LGDEYNVIESIDGQP\GA FTCYL\ADLARTTTGNKVFG\ APEGAVDGGLSNPHSSKRFLG/ YVYPLHSTQTDSPGFMDSEKQR NFNARSTSGKHIMGQ\NCLQDY IAL*WERKMKDAYKK\QFSQY IKNSVT\PDMMMEEMYK\KAHA AIRE\NPVLWKRPPKERSLKRR GWNRSQNVPLLRRKKDRVA\QR KASFLQSSRSGLLES LTPAIFP
19441	49809	A	19554	3	991	LTSRGVGS CAVMLLLVRAGAR AWLRPTGSQGLS\SLAEAAARA TENPEQVASEGLPEPVLRKVEL PVPTHR\RPVHAWIESLRGFEHE RVCLVDLHPDVFANAPRLDILH QDAMLQKNF*RISYAKTKTRAE VR\GGGGKPLAAERH\WAGPA WQHPLSALARRRCCPWPPGPT SYYYMLPMKVRLGLKVALTV KLAQDDLHIMDSL*L\PTGDPQ LP*PELAH\YRRWGDSVLLVDL THEEMPQSIREATSRLKTFNLI PAVGLNVHSM LKHQTLVLTLP TV\AFLAEDKLLWQDSRLQTPLY PFSLAPYSDFP\RPLPHATQGPVA ATPYHC
19442	49810	A	19555	31	305	
19443	49811	A	19556	213	541	DGGPAAHTPGAARGELSPVGD SGGYFRPSHLRCWILNLCISVPL SSAKDLLHPSSEEE\RRNPMKN RLVQSPNSYFMDVKCPGEETV CCIGESTGPQQLENVVVLAVSY

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19444	49812	A	19557	164	591	DINSRDRSGPRATRIDGSGEGD KMAAQLRRHQRRGASSPRFA KD\LLHPSPEEEKRKHKKRL\ VQSPNS\YFMGV\KCPG\CFKFT TVF*AMAQTVVLCVG/CAAPLF LCQPTGEKARLTEGCSFRRKHA LKATLSQDEWETILQ
19445	49813	A	19558	362	916	GGRCTMARTKADWPANRTGG KAPKEANWLTKSPLRKSAALY LEGSKKPHRYR\PGTVAPP*NLD GYQKSTELLIRKLPFQ/RRLVRE IAQGLLKQDSRFQSAAGCFAG RQVRA YLVWPFLKDTNLCA\IH AK\RVTIYAKKTFQLSTPAYRG EPCFKDPLMDGETFHSQKKKK KISLLPVIGSSER
19446	49814	A	19559	849	1261	DGHIAGGPCS*GWPRDPAPKSQ PTMSSGSEPEKLPPAPRPQHYCS P\AEVSGPRFAVGICALNQQAFT ERRLHTSLCPVPAALTVSPESL PQPQIFPGLAPATHLYSKAWA GATVSRPGAILGAGLYWGLVR ETAS
19447	49815	A	19560	3	1852	
19448	49816	A	19561	362	1298	QGGRNVHRHPSLLAWGSDLIV KPHWLHWLLDLNHARLSALFA AAGARLPSHIPAPSAGSRRLLL LLGGCRACLLFFPEMANRGPSY GLSREVQE\KIEQKYDADLENK LVD\WII\QCAEDIEHPPPGRAH FQKWLM\DGRVLC\KL\INRLYP PGTRSPYPRFSESKDGFGRWE QISQFLKAAETYGVRTTDIFS RRWFLWEGKDMAACAEGP*L ALGSVAVTKDDGCYRGPSWF HRKAQQNRRGFSEEQLRQGQN VIGLQMGSNKGASPGGP*TYR ECPRQIHVRTRHPAPWLERTNV STPWSFTKKK

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19449	49817	A	19562	3	2518	AAGEWPQRPRAAVAAAGAAA RQRLPGSRQVAAGAPQPAGGG DPSQRPPGAELIKVQVYVSGE LVPLARASVDVFGNRTLLAAG TTDSEGVATLPLSYRLGTWVLV TAARPGFLTNSVPWRVDKLPL YASVSLYLLPERPATLILYEDLV HILLGSPGARSQPLVQFQRRAA RLPVSSSTYSQLWASLTPASTQQ EMRAFPCLPGH*GSSSGNGSW LELMPLTAVSVHLLTGNGTEVP LSGPIHLSLPVPSETRALTVGTSI PAWRFDPKSGLWVRNGTGVR KEGRQLYWTFVSPQLGYWVA AMASPTAGLVTITSGIQDIGTYH TIFLLTILAAALLVILLCLLIY YCRRRCLKPRQQHRKLQLSGPS DGNKRDQATMSQLHLICGGP LEPAPSGDPEAPPPGPLHSAFSS SRDLASSRDDFFRTKPRSASRP AAEPSGARGGESAGLKGARSA EGPGGLEPGLEEHRGPGSGAAA FLHEPPSPPPFDHYLGHKGAA EGKTPDFLLSQSVDQLARPPSL GQAGQLIFCGSIDHLKDNVYRN VMPTLVIPAHYVRLGGEAGAA GVGDEPAPPEGTAPGPAPAFPQ PDPQRPQMPGHSGPGGEGGGG GGEGWGAGRAAPVSGSVTIPV LFNESTMAQLNGELQALTEKK LLELGVKPHPRAWFVSLDGRS NSQVRHSYIDLQAGGGARSTD
19450	49818	A	19563	206	1126	LESGSHIYAFSHESLLHVASAS V*TSFSDFATSVCHSPLHCQLH HALIPHGKGECSSIVSGIVATGF GATGFLGRCVVNHLGRVGSQIP QAIAQVSKEAEVGKFIHVAHLN VNIKSSRYLRKKA VGEKAVR DTFPEAIIVKLLDIFGREDRFLN YFANMCWFGAIPLVSLGWKAV KQPVVVDVSKGIVNAVKDPD ANGKTFAFVGPNNRYLLFDLVK YIFAVAHSKGWVARDFEISPFE SWTTRDKVERIHITDMTSLHLP SLEDLGIQATPLELKAIEVLR LH HTYCWL SAEIEDVKLAKTVNI

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19451	49819	A	19564	196	553	KLSSEFFLTHSINTAIRNGNLFV NRVTEVTRSGGNELGSFCLLAI KFTLLSFLGTGTRLLPALRPRR LQQRGSHGLAGRLFTLWILHA GCHARGELLEPDTC*LSLCRAR KPRLSTLK
19452	49820	A	19565	1	505	ATEDPGVAMGRRPARCYRYCK NKPYPKSRFCRGVPDAKIRIFDL GRKKAKVDEFPLCGHMSDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRVLRHPFHVIRINK MLSCAGAD/RIHISKWGF TKF NADEFEDMVAEKRLIPDGCGV KYIPSRGPLDKWRALHS
19453	49821	A	19567	6	904	AQLSSLAVPLLVLTPFRSVLVFR SDSLFFVAATEDPGVAMGRRP A\RCYRYCKTKP\YPKSRF\CRG CPLMPRIRIFD\LGRKKGKKWN EFPLLC/ H\MSDEYEQLSSESP GRLPRICPNKIYMKVSCGKDGFI/ HISRVRVLRHPFHVIRIHKMLSCA GADKAPKQACRGAFWKSPKGN LLARGSQLAQVIMSIR\TK\LQN KEHVI*GPAARPSFKFPGRQKI H\SKKWGF TKFQC*WNLKDM VAEKRVHPHMACGGQSTSPSR GPL\DK\WRALPLHEGLPNVAA HPLNTPPIKFLLPWSKKKKKK
19454	49822	C	19568	346	471	
19455	49823	A	19569	1495	2780	EGLHLFCDLLDGLPGVQVAGG FDSFSSILASFTYWHDFPNSTML LSTFRDINLGMNIIKKSAVCFSR LGSETWEMPANLRPSEGGART RTELSRPQTSPRAHLAWRGRGG LGAVRPRRLSRRRSLS*KP\RS*\n AEAPAGAPVRRCRPAAPP/PPRP SRCGPSTPPPPSPGA\PRRRRPP CSEHNKLSPPPPSSLCRPAAPSPP RPAPRRSPSRRRRRRRHPRPAD RREPLASATRVRLPPPPPPR*PP SSSCPRRGRRFLAPWLARPAG APRRAPCSRAARSRRAGASGAR VGDPAGAGRGWRRRAAGRP*\n APERRPPPLPAVCEVSGGPLRA SFADSVPGVRRRRPPGLGTPLSS SGV*PRNERGVETTTWGGGSE GAPGSGEENLFPAPQVIVARS GEGTVVPRFPVCQLRDSA VLLC LFD
19456	49824	A	19570	178	256	

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19457	49825	A	19571	622	1726	QSGSRTMMRMLVPASVGLLET GPPGDPSLSHPLSGDVTVPED QISTVQKLASDHKDIHSSVSRV GKAIDRNFDSEICGVVSDAVW DAREQQQQILQMAIVEHLYQQ GMLSVAEELCQESTLNVDLDF KQPFLELNRILEALHEQDLGPA LEWAVSHRQRLELNSSLEFKL HRLHFIRLLAGGPAKQLEALSY A\RHFPFARLHQREIQVMMGS LV\YLR\LGLEKSPYCHLLDSSH WAEICETFTRDACSLGLSVESP LSVSFASGCVALPVLNIAKAVI EQRQCTGVWNHKDELPIEIELAS *SAWYHSVFACPIRQQTSDSN PPIKLICGHVISRDALNKLINGG KLKCRYCPMEQNPADGKTH
19458	49826	B	19573	271	392	
19459	49827	B	19574	58	296	
19460	49828	A	19575	215	861	QLPAESVTRTRGPAKAQARAGG PPGPWHCSYKWRAWPSSLSGT GWPDMEGETTAAPASRENSA DCS\AGELRGPG\KELW\SPIQ\Q VTATSS*MGRDFVLAT*EKVSH VDS*/EQPRSLQR\DRP\AGPAQ AKQGTTPRAQASRESLSRPTAA V\QLPSGPQHPV\TSGS*KGLAG KTSMGRKGLPWARGWAPWSL EAQNP\RPTRLCDLFTGEDFDD DV
19461	49829	A	19576	65	782	SSSSSAIQRKPRWVLYKYIQEL WRKKQSDVMRFLLRVRCWQY RQ\LSALHRAPRPTR\PK\ARRL GYKAKQGYVIYRIRVRRGG\RK RPSFLKGATYGGQSPVHSWVFN QLKSFASE/VLSVPFARGRRSLG RH\CGGLLEEFLNFFNWVWVER FPHYQIFLKVIPHLIPFP*KLFRR N\PD\TQLIHQNQVHKHREMRG LTSARPEKSRGLGKGHKFHHTI GG/SLRRATWRRRNTLQLHRY R
19462	49830	A	19577	1	179	QEDYLRELLTTMGDR\FTDEEV DELYREAPIDQKGG/MFN\YEFT RILKHGAKDKDGLKEL

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19463	49831	A	19578	144	722	KKGLNHHHVEQNNTNTRPRPRSG PQRATSN\VFAMFD\QSQIQEFK EAFNMIDPDQDGFHRPGKICND MLASLG\KNPT*WSILDAMMNE \APGPPSNFTPWFPHHGFGEV* MATRS*KMVIRKCPLTCFE*KK PLGTI\GEDYL\RELLTTHGGIGF TDEEVDELYREAPI**KRGISITS EFTRILK\HGAKDKDD
19464	49832	A	19579	3	429	VACLREHKQRCERATRSLREL LQVRARVQLQGSELRLQQA RPAAQAPEKEAPEFSGLQNM QALDKRLVEVREALTRLRRRQ VQQAERRGAEQE/DRPQTGQA DRLAAAGGAGPGGGLRRPAEE PRGQQPEGPGGGQN
19465	49833	A	19580	1	2454	RFPAGVAPRRAMANVSKKVS SGRDRDDEEAAPLLRRTARPGG GTPLLNGAGPGAARQSPRSALF RVGHMSSVKLDDELLEPDMD PPHPFPKEIPHNEKLLSLKYESL DYDNSENQLFLEEERRINHTAF RTVEIKRWVICALIGILTGLVAC FIDIVVENLAGLKRYRVIKGNIDK FTEKGGLSFSLLLWATLNAAFV LVGSVIVAFIEPVAAGSGIPQIK CFLNGVKIPHVRLKTLVIKVS GVILSVVGGLAVGKEGPMIHSG SVIAAGISQGRSSSLKRDFKIFE YLRRDTEKRDFVSAGAAAGVS AAFGAPVGGVLFSLLEEGASFW NQFLTWRIFASMISTFTLNFLV SIYHGNUMWDLSSPGLINFRFD SEKMAYTIHEIPVFIAMGVVGG VLGAVFNALNYWLTMFIRIYI HRPCLQVIEAVLVAAVTATVAF VLIYSSRDQPLQGGMSYPLQ LFCADGEYNSMAAAFFNTPEKS VVSFLFHDPPGSYNPLTLGLFTL VYFFLACWTYGLTVSAGVFIPS LLIGAAWGRLFGISLSYLTGAAI WADPGKYALMGAAAQLGGIV RMTLSLTVIMMEATSNVTYGF IMLVLMTAKIVGDVFIEGLYDM HIQLQSVPLHWEAPVTSHSLT AREVMSTPVTCLRRREKVGIV DVLSDTASNHNHGFVVEHADD TQPARLQGLILRSQILVLLKHK
19466	49834	B	19581	508	4413	

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19467	49835	A	19582	8	331	EVTACWQSSQPSLTLSASSAWA STLAALEEPFSPPLHSESPFLGW PRPELGPSAAPCAPVPPEPPQRV PPAP*RPVPSTTQGLRSVGAW CRTGRQLHLHPGVGSTG
19468	49836	A	19583	831	1121	
19469	49837	C	19584	1	1524	
19470	49838	A	19585	270	578	RFSKSPDPSGAQLAAPSGSRTG AAGGAACQSRAVRPHSSALGW SMGLGAMEQGA VL VGEAWAT QQPTVGGRLRHGGLQVPSPAPR GG*GPAKSHSSCWPRC
19471	49839	A	19586	2	298	
19472	49840	B	19587	113	515	
19473	49841	A	19588	1	569	MLPDRLRSPVAHRCRASGNY HSGRHSPAPAWRVTLTGWLDQ RSSRIHRSALAFKDSYSKGKEERT HIKGMCELLPSG/EARGLAGFR SEADLRGECYSS*RQCGPKEL RSPAGFTQWIPHWGYRWSCLS VPRPAPALLSPWVVDGTGRCG AGGGAHRGGSGRGAHGGGG RLRHGGLQVPSPAPREGS
19474	49842	C	19589	1	1200	
19475	49843	A	19590	511	846	ARHRVLIGVFTIPELDIKVLHVP TRLRSPASFTQWIPHWGCRWSC LPVPRVPALLSPWVVDGTGG CGAGGGAHRGGWGCTGAHGG GGRLRHGGLQVASPAPREGS*G PARN
19476	49844	A	19591	9	481	QQPLREKPA SGDHPAKNANRR WSPTRYPYVES*NWMPSLHLI QKSIQDGLKT*TLDLKP*KL*KK T*ALPFRT*A*ARTSCLKHQKQ WQKTKLTNGI*LN*RASA/PA KETKI/SSEQATYKMGENFHNL LF*QRANIQLQ*TQRDLQEK KQPHQK
19477	49845	A	19592	1	3339	MSVRKDVEKLEPSDIVCGNVQ CYSCMETNLTVSQVKHEVT GPREGATKPNRMKGKEGRSGS LLGEGDFFKDESVMSSQGSSKD GEKRRGKAQRWKPWQMIGICR QLGVAKSMEGYQSRRDQGG GVSDKWPQVCAKKPEFYPTAQ VWANFSVTSCQSVTITQLCHGL RRLEISPARSNAMHLNPDPGQ KQNLSPKVNDIITDISSSGSGA GKFQVISKSDISEVLLQQMDAG HSSKDDPNEYGGWKSPPRC
19478	49846	B	19593	1	631	

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19479	49847	A	19594	71	208	PCPKHCSKFPMCPPELVGSWSH* LQE*SHGPSRFRLC*KQPQDLQ
19480	49848	A	19595	138	650	AWAQLPSALGSTRVSPPPSARS QPPWRRRHKVCWRLNRCKE/L DEDAVASADFSSMLSEEEKEEL KAELVQLEDEITTLRQVLSAER KAS/ELR*NKNSA*T*/CNEKPE LQQKLA*HAD*HCLQEDT*YAE SRRAGNCSFQQRWNGHQQEV RRHELLHSPFHKYACYETKVG
19481	49849	A	19596	1	1222	MRADGTAGKDPFATDKQLPEL LIQHCWDGLLAVCGGSTVGVR LPFILHGSWVRPVAASFPLPDN LHDSAEPAILLEPTQMRRNQK TNAGTMTKQISSTLPKNHHTSS PAMDPNKEEIHDLLEKEFSRLVI ELIREGPEKGKAQCEEIQKDDT KVKGEIFKEVDSLKKKQLNIQE NLETLLVLNALESLSNRJQVE ERNSEREDKVFELTQSNKDKA QRIRKYEPSLQEVWDYVKLPKL RIISFPNEEENSKSLENIFRGRK EHFHSIARDLDIQIQEEQTTPGK LIVKRSLPRHIVIMRAPTPMDHP RAEECGRRARDWQAAPPAAPV RDPLGEASWAPDSEGRK\WNTS KHQRNKLRTLHL*EL*HSSRGS VASFLKSVRPRTHQFQTQSGYP KLRWRKES
19482	49850	A	19597	381	598	
19483	49851	A	19598	1	1906	
19484	49852	A	19599	493	589	
19485	49853	A	19600	60	261	
19486	49854	A	19601	1423	1831	PRRSANVNLPPPQLATLSPGWP EERKSVGSPTSPPPRPLRRLSA APG\SGGAWPEGAWSLD*TAS PAGAPVQRPAGNG/PSALDASH ARALYLQRIPRVTWTPASQPPA PLGPFLPLIPPAASHRQPSSSFFR RHR

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19487	49855	A	19602	1	1535	MEEKTNVQLPPGQTEQHVEIHI MNFCSKNHHRITPEKPKELTDP FKEAACCKLYEIDKKLYRMA EWIKIHKPSICCLQETHLTHKDS HKLKVSITFKDLAVRFSEEEWR LLEEGQREFYRDVMRENYETL VSVEPGRAVGGGSHADEGQEP AGCG/VSPGPGAAGEGDPRVLV WRSQGRYGQPRER\GRGASLD GERASPEAA/DGKRALPSRPA QLPSRRPYQPAPPG\PTPTDSSCS SGPTGDGVQGSPLPIRISPGNSP L/PRPHQLSEGNPCAWAPARDI PKLLATSP*PGHVQANQSRPGA WEPALGRSDQRACSASGSAELC ERWPQQAP/APPEEPPASPHPA APTGPGFWESECGEPGAA\PGKG SAPKPSPLHCLESALRGILPEGP CASPAWEAPAPAPAPAPARASA A/AEGEDPRPEPELWKPLPQER DRLPSCKPPVPLSPCPGGTPAGS SGGSPGEAPGEQSPGTAAASV Q/VSPAHWPCFS/SPVRYSSGSLP GFSAGEKAQG
19488	49856	C	19603	4	150	
19489	49857	A	19604	148	448	RTRDWSLFLLMFGCVRSFFLLV GLWSCWLRSEAADLRGECYSS *GGASGVVRSSWWVRGLTSFR SETGFTQWIPHWGCRWSCLPVP RCAPALLSPWVVNG
19490	49858	A	19605	136	439	LVHFTEC*LVRQLTLARHSTDW CIYKSLARQKSSPSPHSTQEVQL ASPLTGRQEDCSEPRSAPLHSSL GPTERDSICVAASSVRWTRPGA RFS
19491	49859	A	19606	2	399	SKLQKLKRSLSFKTKSLRSKSA DNFFQRTNSEDMLQAHMVAE ISPSSSPLPAPGSLTSTPARLVCI QVARLMPFRNTSSRSPLFC/RCL QPHDSGFLFLRPAPRAHREER NNSRRVALRAVTLTTERLQLHS

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19492	49860	A	19607	1	1262	MPLSYAYKNAETLAGRHTSSW MSRGA YQRRNTRAAGRPEECT DRNWHAGRTRRIWLGLQEERC SDVFGVSFFWWVRGLAGSGAK LQTFTVSVTAHRGSKDQKSEQ KQDLLQKAKEQTIHNVKGDP ELPLLAPACFYSLICPRPPHIL LIGPFYRELIGPFYRELIGRQLRP GEKSSTAA/VWPRC*AA/RLPGA G/WTAPSAGAEPTPTWNSRWP ASATRRPGSRRLSLHTSPQAE GAGSGLSQPRKGLPQCSGRLKR SSSAARVG\ARQRRRERASEG/ WPACCHLSVLPCGFGFLEAHSS SPEQTDHEQNCPADIKVMRLA GQPTNARGAANRAQLHSTSV SHLKA VIFKIQTRQKNSHFPL FLEMTTSLATGRLRPSWVDYA RPALSVVSRSRFSLLTSLELLV ETLGECGLL
19493	49861	C	19608	173	394	
19494	49862	A	19609	1	924	
19495	49863	A	19610	3	689	EVQEELEGPVRGAPHQLHQGP VEHLEAPHQHKFGKKVIYFNY LSELHEHLKYDQLVIPPEVLRIT MRSSRACTRAGRRLPPRHRR GPRCPHSSLASVCNTSKTIKA NSSPLC*GSQ*RT*ERKACAPRA CSGDPPACRPSARSRGTT/KGK PVNFDDYGDIIHAPVILKTFLRE LPQPLLTFQAYEQILGITC/GGE QPACHSLPPDLTEPPRAQLRRPP LPHGLPACG
19496	49864	A	19611	1749	2411	APSCLVSEHSAPGPQRELQPLL TFQAYEQILGITC\GSCPAQGW GAWSSDAVPQLLARRPPLPHGL PACGEWGRGELGVKPSGLPSH AGPAWGHQVRTVCATAHPQD CISPEGAVEEIVGG*GC\TEGQ SQRVLQIWP\SQGVSSLSALVPL NMF\TELLIEYYEKIFSTPEAPG EHGLAPWEQGSRAAPLQEA VP RTQATGLTKPTLPPSPLMAARR

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19497	49865	A	19612	883	2164	EHRRPMRAQASHEGHRHPMRA QMSHEGYRRPMRVQASHENTG VP*GVQASHEGTGIP*EHRCPM RTQVSHEGTGVP*ECRRPMRTQ \GPMRGTGVP*EHRCPMRGTGV P*EAQASHEGHRRPMRGTGIP* GAQASHEGHRCMPMRGTGVP*G HRRP/DENTGVP*GHRRPMRAQ ASH/REHRCP/DEGHRRSP*GHR RPMRAQASHENTGVP*GAQAS HENTGVP*GHRRPMRGTGVP*E \QGVP*GHRRPMRAQVSHEGHR RPMRTQASHEGHRRPMRTQAS HEGTGVP*EHRRPMRGTGVP*E FRRPMRGTGIP*GHRRPMRAQA SHENTGVP*GNR/PYHEGTGVP* ECRRPMRTQASHEGTGVP*EHR CPMRAQASHEGHRHPMSTQAS HEGHRRPMRTQASHEGHRHPM RTQASHEGTASHEGHRRPMRT QVSHEGTGVP*EFRRPM/PGHG HPMRTQASHEGHRRPMRVQAS HENTGVP*GHRHPMRGTGIP*G HRCMPRGTGVP*GYRHPMRTQ ASHEGYR/PSHEGTGIP*EHRCP MRTQVSHEGTGVP*ECRRPMR TQVSHEGTGVP*GHRRPMRTQ VSHERHRRPMRTQASHEGTGV P*EHRCPM/MGHRRPMRTQASH EGTGVP*EHRRPMRGTGVP*EH RRPMRAQESHENTGVP*GAQA SHENTGVP*GHRRPMRAQASH
19498	49866	A	19613	1	552	VPQDSLQALAGQATPEIPLGL QLHTVLVQEIQELIEAQTRAPGP CAEVRALPAPAAEPEPAWEEAP PERALELEGAPAKDQTNEELPEI TA/PYC/EPLALTLELKAWLERE VGGRG/DQHSPSQQLPCCP*SW ARWQTCRQRAGHLAWPPVPRC REASLIH*NHSPAAAGPFILLILV YLCAGGA
19499	49867	A	19614	443	991	VDSRPMNLNRLMRTSGRRWTP RPQVDTRP*VNNKTQ*AIRPQ/C GYSPQVPQDSLQALAGQATP EIPLGLQLHTVLVQEIQE/RH*G TDTCSWSMCRSKSTASTSRWS Q/RPAWEEAPPER/GTGAGGSSS QGPDQRGAA*NHGGAGEH*KK AGRKSSEIRYACSQRQPPPGM DAGPQLGIQAVCP
19500	49868	A	19615	16	450	

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19501	49869	A	19616	2	477	PRVRSGHSMDMRVPQAQLLGLL LLWLRGANCDIQVTQSPDSL SVGDKVTITCRASQGISNGLSW YQQKPGQAPTLLIYAASSLQSG VPSRFGSGSGTDFLTISLQPE DVATYYCLQDYTTPTVLQAIT KTPQR\RDV*VCTVLATPPGVIN WL
19502	49870	A	19617	2	675	LPLSSALPTESGSHLPFSGIMA RPSDPLVKPQRSSKREPKKVHP GTQSDR\YVKIKR\NWAENPRG\ IDNRVRIRRFKGQDLDAPTLG YG\SNKKTKAHACPSGFREVPG VHNVQGSWEVACLMLQQNLY CCRGSVHNVFLPRNRQSPSWG KELAQLGLSGVHPTPLARAAQL KEN*VRQLMCNKSYCAEIAHN VSSKNRKAIVERAAQLAIRVTN PNAR\SEENE
19503	49871	A	19618	2	527	VWAANMPSRLRKTTRKLTGHG AATGHGPHRPSTRKAPPGGPR* MPGGPAIHPPGSNFRQNTHPQA YFGK\VG**KHYPT*KRNQSF PPTVNLADKLWTLVQ*NRHRVK CLPKNKTGAAPHHLMLVRSGY LQSSGERGKLPKASLFFVEGPK FFSRRLREEGLRGVWGGPVSL
19504	49872	A	19619	45	233	
19505	49873	C	19620	95	154	
19506	49874	A	19621	2	241	
19507	49875	A	19622	63	320	RQWGNRLVTA/WSFFSWLSDC EGPGYGTIAEVGQLWGIMAKD LLRHSLASEELALNQNLTHDQ FAQSTRSSARACGSIFCSTTQGS
19508	49876	A	19623	2309	2560	RNREARFYMTTPNFTETKR/WF HERVICALEREREREVTKISRLE RDNHRLVGDISQLKKELDQYL QAISDLEDNCNGKRLQILEA

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19509	49877	A	19624	4994	7008	QWQQKPKLTNDNLKFIWNQKR DRIAKTILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRHI DQWNRTEPSETIPHIYNHLNFD KPDKNKKWGKDSL FNKWCWE NWLAICRKLKLD PFLTPYTKIN SRWIKHLNVRPKTIKILEENLGN TIQDIGMGKDFMTKTPKAIATK P\N*QMGSNILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNMPCSWVGRINI VKMAILPKVIYRFNAIPIKL PMA FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPNFELYY KATVTKTAWYWYQNRVIDQW NRTEPSEITPHIYNYLIFDKPGK NKQWGKDSL FNKWCWENWLA ICRKLQLDPFLTPYTKINSRWIK DLNVRPKTIKTLEEDLGITIQDI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSFDKGLISRIY NELQQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKKYS SSLAIREMQIKTTMRYHLTPVR MATIKNSGNNRQ

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19510	49878	A	19625	1	764	GSSEKRFKFTGNQKLSMEVEK NQQMRSLSLYQQRVEGSKCAV RRKGGSPKPKAFLAAAEKFLN VPVMRSASHEQLVLTGDPNKT LPGSKSRLSGTDSPRACSTFPIW ATKIVTEMQVQLFAACRVQLIK HPRPSAARTAMEVLESGEQGV LQWDRKLSELSEPGDGEALMY HTACQGHEEQVWEEELQLGL RSGILLNHWKRQLVGGAGILRS AQLHSPYHHWQMISLVSPSPAV MAVMENDDICMVLCVKVMDE PNHILDAISEHQIPSLEDQWFSE CALWTSKAYENLVERHILGPHC RPTELETLGISEDDIDHNPYLDF PGVAGLGSRNRVKERGWLSEM KKEGDIFMKIQG*AICPTSGPAE GLPPPTPVPHVPDRPCGT*GP/PP SPGSDSS\PACGPTAARPAPRSP APPWRCGPRWAEDVLLTGLCK QQIAEPAFRLQFWWPI

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19511	49879	A	19626	1	1430	MNGTAEGQHPWVHSTFNGEPQ SLSSSVRVKNQGPRDQAEFGQ GNGSTVPAAQARTIARARGSGS GGGDALQGGGAGAGPGATKR TARLLARGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKS VWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAFV QEIGSLRALNLSLCKQITDSSLG RIAQYLKGLEVLELGGCSNITN TGLLLIAWGLQRLKSLNLRSCR HLSDVGIGHLAGMTRSAAEGLP GPGAAHATGLPEAHRFSKAHL PRADGPEAPQPQLLWGNLGRW PPAPVAHGQPAHAQPCAPCDNI SDTGIMHLAMGSLRLSGLDVSF CDKVGDQSLAYIAQGLDGLKS LSLCS/RRGLRRAALRPDGRGV LGAGAGSSQRRGGGRRKMETH ISCLFPELLAMIFGYLDVRDKG RAAQVCTAWRDAAYHKS VWR GVEAKLHLRRANPSLFPSLQAR GIRRVQILSLRRSLSYVIQGMAN IESLNLSGCYNLTDNGLGHAF/R AGDRLPARSQPEPLQADH*QQP GPHSPVPQGP/ARCWSWEVAAT SPTLAFCS SPGVCSASRALTSAA AATFRMWDRAPGRHDAQRGG GLPGPGAAHATGLPEAHRFS
19512	49880	A	19627	293	1520	TTMDGSHSAALKLQQLPPTSSS SAVSEASF SYKENLIGALLAIFG HLVVSIALNLQKYCHIRLAGSK DPRAYFKTKTWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVS VIASAIIGIIFIKEKWPKDFLRR YVLSFVGCGLA VRGTYLLVTF APNSHEKMTGENVTRHLVSWP FLLYMLVEIILFCLLLYFYKEKN ANNIVVILLVALLGSMTVVTV KAVAGMLVLSIQGNLQLDYPIF YVMFVCMVATAVYQAAFLSQ ASQMYDSSLIASVGYILSTTIAIT AGAIFYLDFIGEDVLHICMFAL GCLIAFLGVFLITRNRKKPIPFEP YISMDAMPGMQNMHDKGMTV QPELKASF SYGALENNDNISEIY APATLPVMQEEHGSRSASGV RVLEHTKKE

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19513	49881	A	19628	751	2034	VSSSPTSLGCMRQKEYRIPKKL TNMPFLGSQPSLLALRSCHPTG RTCSA/SQVALFCLAAHRVSQIG ALLAIFGHLVVSIALNLQVSFHI RLAGSKDPRAYFKTKTWLGL FLMLLGELGVFASYAFAPLSLI VPLSAVSVIGKTIIGIIFIKEKWK PKDFLSKFVLSFVGCGLAVVGT YLLVTFAPNSHEKMTGENVTR HLVSWIILFCLLLYFYKEKNAN NIVVILLLVALLGKLTVVTVKA VAGMLVLSIQGNLQLDYPIFYV MFVCMVATAVYQAA*VSQAS QMYDSSLIASVGYILSTTIAITA GKGFYLDFIGEDVLHICMFALG *VLAFLGVFLITRNRKKPIPFEP YISMDAMPGKVNMDKGMTV QPELKASFSYGALENNNDNISEIY APATLPVMQEEHGSRASGVVPY
19514	49882	A	19629	19	933	QSARPSLKRARSQRGRPLPSRA LVFLFLFFFFFFNFIPTQPSAH KDMTTNAGPLHPYWPQHL\RL DNFVFN\DRPTWAYTGLGLFSV TGGLRSWTTWAVVQGRAPGL\ PIGDFGRATVPCCWVLQWCGFI HLVIEGLVPFSNYERPCFGDQSL LYSQLW\KEYGQGETARYILGV TNFTV\CM\ETITSFA\WGEPFSL WVVIV\FLLQHPL\RFIL\QLVVS VG\QIYG\DVLYFL*RATPTDFQ HGKPGPTPLLLPGFSFVFHEMP LWLVPAPGSPCLDA/V*KHPQ LMPQSNAWNAKGPKPKSKK
19515	49883	C	19630	113	257	
19516	49884	A	19631	143	330	HHGPVPFPRGLIS*HSLHCPCPT PGGKNVFFFCEYFLKLAGIETT NCSADKRGKKVCCLIPR
19517	49885	A	19632	3	432	
19518	49886	C	19633	112	192	
19519	49887	A	19634	1	4410	MARPLALPLTGMSAPGSSLTTIP HTPSHPRSPSTPDTVSHPRSPSTP DTVSHPRSRYPDTVPPPLPVY TRHRVPPTLPVYTRHRPTHAPG IHQTMCPHAPGLHQTCPCTHA AGLHQTPSHPRSPSTPDTVSHPR SRSTPDTVPPPLPVYTRHRVPPT LTVYTRHRVPPTLPVYTRHCPT HAPGLHQTMCPTPRSRSLPDTV PPTLPVYTRHRVPPTLPVYTRD RVPPTLPVYTRHRPTHAPRLHQ TPSHPRSR

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19520	49888	A	19635	1	444	
19521	49889	A	19636	3	1017	SSRPVPRPAARLSAMSSTQFN KGPSYGL\SAQVKNRL\ASKYD PQKEVAELRTW\IEGLTGLSIGPD FOKGLKDG\TIL\CTLMNKLQP G\SVPKINRSMQN\WHQLENLS NFIK\AMVSYGMNP\VDLFEAN DL\ESGNMT\QVQVSLALGG KRPKTKGAAEGGLDIGVKYSE KQERNFDDATMKAGQCVIG\Q MGNT\NKCASQSGMTAYGTRR HLYDPKNHILPPMDHSTISLQM GT\NKCASQVG\MTA\PGTRRHI YEYQAGNPTSCDNFSM\SLQM GYTQGAQTQSGQVF\GPGRPDI *TPSTCPQGTIADGAPSGTG\DI CPDPGEVPEYPPYYQ\EEAGY
19522	49890	A	19637	1	479	MQGLRVSHSTFYTLIPEVTENP HRLDFHWFLSAQLERVASGTIL KKKESPPRPKVLGSARWDLPV/ PPGWCNSTALQ*SPRSDQV*SE RGMEAFFLPMPSESVASVCCRF SPWTSQKQLSTSRDRKLQGKR *WFSTGVWAS*DHS*ERRCSQC PKTTCW
19523	49891	A	19638	2	501	FVPEERSSETALQRCSLPPGRR APDPGLQGLRGLSGSGSELES RKAKLRAAEGLRKKTTEINQRD TADRCTRGGH*SPGESPPKPSAF SL*LSVPRSGKLRFLRSPREPA AN*SHRLRRHREKKCFHPPFTL NLIASGTSLEGGGVAPTWSTGR SQRALPSTL
19524	49892	A	19639	1	1122	RFLILINHAFVEYQDIFVASFPSI FFNIHCRGEGEREKGFAKDR PPPSTLLCGSGHLPPLASRRPPR PRCACCLPGGPLSSSALEAG*Y WRFPKLSG*KRSHTPWVPQPPQ PLPNPSPGKWVWASSEALQ/GT RA*RGIAELTHLLRLPARRGTQ RPA\PGHRAGASQFRREASSRG PGLRPRPGRTRELGFPKRRVWA TAASWPRGTEPCAAA*RRRRR RRARGRELSRSTWSSDTESTF ALSCDPS*PRHQSVPKGRVGS KGKLANKGFFCPTWQRPPIRVAS VDMELLHFVPKRALPGFTIAISF LSSAPPLCPWYSGSNPWLRNPL KPRLAALFQRSAAPRLHFSGAA SLQVGERRQIRDFRVSAGA

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19525	49893	A	19640	14	618	GNENVKSGRKTSLSPFVLSDF ASSALLASDSSRWMSLQSASEC \PGRAAGSGPGYG*PVSEVTGG PLSAHTHSSL*TSQRGCPPG\PE HHGAGPFP*GPGLKDVSGRGG NGCWGRRKPAHMGGLGPAT PLQFPPRSPPPPPLGPPQ\PPPPP SPPLGPASSPP/CLPHRPPPPPPP PSRCVTAPCVTAPGPAPTGAAA RRH
19526	49894	B	19641	42	121	
19527	49895	A	19642	1	153	
19528	49896	A	19643	104	355	
19529	49897	A	19644	459	988	DPRTMNLAIISIA\LLLTVLQVSR GQKVTS\LTACLVDQSLRLDCR HENTSSISPSKYEFSLTRET\KH \VLFGTVGVPEHTYRSRTNFTS KYNMEGPLYSAFH*ARTRGTL QVLQFHQFGALSPPIFLSRNV\T VVQRTNWWKC\EGISLLAQNTS WL\RLLLSLSLQL\ATDFMSL
19530	49898	A	19645	1	950	
19531	49899	B	19646	55	1459	
19532	49900	A	19647	1	165	
19533	49901	A	19648	183	700	PNGNQPPRETPQRISRGIRLGT AVASSGGSRLPRASAEPAQG AAARRAAPGPAGRCRAARGAG AGSARRLP*APAHAPPEQGRR/ SRTARSRAAPQPPPSQPQSPQL GPRPSQGAPQRRGPSSPGPRAG CRAQ*EALTPRLWRSSRTPPSR GLGPHVRGGIFSPKIPT
19534	49902	B	19649	71	264	
19535	49903	A	19650	3	810	GVSPCWPGWSRTPDFGSNPKCP PIRASPGAELQALSSTVTTPYW GILVTAVFPH*GLRPRQCRQDH PAGRQGGPGGEVPEILGQSGCT DRTWSKAGGRTQAPGPRSRAG RRVSGQEIRAPGLGCRHGG/V GAPWTPEAASPLTATEPSCPH/L QAPCGYMPLSVSPRRRYRGPA GDQVKMLKFKAFCLDYWQF LCLQPLHGAYKRDSDLMTWIW GLLPEVTGAAGTTPNVHTSGR FFRACVFCPVHTLVKKEPHPGQ QEIIIMEPSWSP

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19536	49904	A	19651	258	1378	REILSLDRLPGATPNQALSAEA ACPKGQTSLLCGAMGIQGLAK LIADVAPSAIRENDIKSYFGRK VAIDASMSIYHFLIAVRQGGDV LQNEEGETTSHLMGMFYRTIR MKVENGKPI/YKSGELAKCSEL RVAEAEKQLQQAQAAGAEQVV EKFTKWLVKVTQHNDKCKH LLSLMGIPYLDAPIEAEASCAAL VKAGKVY.PVATEDMDCFTFGS PVLMQHLETASSDYCKSIWSIGP KRAVDLIQKHKSIEEIVQRLDPN KYPLPENRLHKEAYQLFLEPEV LGPESVELKWSEPNEEELVKFV CGEKQFSEERIHSGVKRLRTEK GGGEPRGP/DWTQPGRASPTKR PDHQEDQHTRSRSSEGS*GWL
19537	49905	A	19652	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RGPACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEK\T LNNKFASSIDKVQFLEQQNKML ET/ESYNSLKQQLETGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEEEIQKLQSQILDTSVVLC MNNSHSLDMDSIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSSESDVLPK

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19538	49906	A	19653	1040	2322	LPACPPASTPASTMSIMVTQKS YKVST/SRWSSGPQAFGNCSYA RPGGACISSLSFSRVGSSIFRGVL GGSYGGASGMGSITAVTVNQS LLSPLNLEVEPNIAVCTQEKIT LNNKFASSIDKVQFLEQQNKML ET/ESYINSLKQQLETGLERLK LEAELGNMPGLVEDFKNKYED EINKRTEMENEFVLIRQYVDEA YMNKVELESCLEGLTEEINLLG QLYEEIQLKLSQILDTSVVL MNNSHSLDMSIIAEVKAQYEE MANHSQAEAESMYQIKYEELQ TLAGKHGDDL RHAKTEI/S/EM NQNGAKQDMA/*QLHEYQELT NIRLALDIKITYRKLLGEESQL ESGMQNMNIHMKTTSGYAGGL SSAYEGLTSPSLSYGLGSSFGSG MGSISFSHTSFTRAIVVKKIEIHD GKLVSESSDVL PK
19539	49907	A	19654	152	207	
19540	49908	B	19655	75	402	
19541	49909	B	19656	1	2319	
19542	49910	B	19657	1	1341	
19543	49911	A	19658	198	1118	LHAPNSLHHHLPRDLL*LLPLPL QHRVSDPGLHSALRPMEEHRA QS*QPSAPEDAVQA*WGHGGH SPGPDRA GCHHCRGDQERVST HHVLPVCHHPDDAYGGCGAG WNPDL/PGQMRSHWMSPKIRPA NWTRTSWWALPQAPGLSPGAQ SWPSFVPRTTPTTPTGTTCTPSW *SWRSTSR TSSSLNPFTESLKNS LRTSKPFGWSQSAMATPCPLL PASRVELWPETWPLGQGHATS SQWKCVPERKL*QGGEAGGEQ LGREPKPSPSSFLT GQRQEKSP EEYCSLLVPLQYFGSRGTHADL LHG

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19544	49912	A	19659	1	2707	MPGPHPASASCPRLFTPRRRAF CPLRICAPLAAAAFCPPRFLPHT RRR AFLLLCRRGFLPPPCLGGG LAAAFFPHPLPFLRPHRRGFLP HRRRGFLLPPRLGFLPAAAFYPP PPRVFARRGFVPPSPRRLFARRA FCHTPPAAAFSPSAAAAFCPTA DTAFACTLAALAFCRGFLPPRC RGFLPLRHRRSFLPHRRRGFLPT AAFCHRGFLLATAFYPPRRLFAP RCHGFLPPCRSDFFAAAAFCPR RRGFLPLSPPLFAPAAVAFCPRH RGFLLPRLFAPVTAAAFCHRDFL PPPPRIFVPAATALRAGAADSA ASSTGVLARAALRGPCGLHRV ALPVEAMGEKKEGGGGGDAA ATEGGTGAAASRALQQCGQLQ KLIVIFIGSLCGLCTKCAVSNDL TQQEIQTPEPAKPAKPAQTRQ PSQSPHPASQASQTSQPAKQPA SQASQPAKPAKPPSQSPQPSHR ASQASQATQPERPASQPASEPS QPSLPASQASQDRQPAKPAKPD SHPRQPSQPYQPSQPASQASQA SQPAKPSRQPSQPRQPSQLASQ ASQSTQPLKPAKSPVQQSQPSQ PASPDSQASQASQATQPAKPAK PPSQAAQPAKPAKPPSQPACQP PSQRAKPAKPARQPSQPSQSSPP ASQPSQACQPSQPGSQASQASQ AAKPGMPAKPARQPSQPSQPAS QARHASQAIQPAKPAG*PSQTS

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19545	49913	A	19660	1223	2286	RQCFKATEQPPAIHHPPSSQPSRQ PSSQPPIYPSPICGRKSGIQPKFQ LNG*MVNG*MDE\SRERHEWP CNYQVRPKAGEKQPGAEANRE TRPEGGTP/RGERGRQGPATRR QKSTPEAGPSDLEKQIARQEAP AGTDEIERQQARPH*AP*KIPVE WVNGEWLNGRMPGDPHEWQC NYQPAIQPAIQPANQLSIHNLW TQFRHSTKIPVEWVNGEWLNG RMPGKHHEWQCNYQPAIQPAI QPANQLSIHNLWTQFRHSTKIP VEWVNGEWLNGRMPEDHHEW QCNYQPAIQPAIQPASQLSIHN MWTQFRHSGQIPVEWVNGSRL HGRQQGIFMHGNATSSHPSIQ PAIQPAIQPANQLSIHNLWTQFR HSTKIPVEWVNGEWLNGRMQR NIMNGNATISHSPSIQPAIQPAIQ PVNHLSIHNLWTQFRHSTKIPV EWVNGEWLNGRMPGKNHEW QCNYQPAIQPAIQPANQLSIHNL WTQFRHSTKIPVEWVNGEWLN GRMPGDHHEWQCNYQIAPML QSNRTAASHSPSIQPAIAAIQS ATHLSIPNLWTQVRHSTKIPVE WVNGEWLNGRMPGRDMNGH ATIRYGPKEKNNRAPRQTEKQ GQKGAHQRRREGKARAGNEETE KYSRSRAIRPRKTDSASRSSRGH RRNRKAASAATLGPIEDTNQNK LHVVRTGLEVKAIISIQPGPTLM
19546	49914	A	19661	39	599	GASPNQGGQNRPHARQRAPPQ/G /PPGEPERRAPLPSGHGEPCTHR PPPPFPQP/AGTQKPLLQGGGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGGW*VGRG RGLPAFAQIAGHQVGP RRRTTP AGRKPRSPAGPR
19547	49915	A	19662	39	599	GASPNQGGQNRPHARQRAPPQ/G /PPGEPERRAPLPSGHGEPCTHR PPPPFPQP/AGTQKPLLQGGGG *PAENAPTAALGSPAPPRGCQA APPPRSGAGRPDLPTLAGPRPAP A\PPPSAAPPPPSGAPSR/PAAG RQRLSGVSSGPSLGGW*VGRG RGLPAFAQIAGHQVGP RRRTTP AGRKPRSPAGPR

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19548	49916	A	19663	1	379	YFPHTAIRYPPHLNRQDPLKDL VSLACDPASQQPGPLNGSGQLK MPSHCLSAQMLAPPPPGLPRLA LPPATKAATTSEGGATSPTSP/S PGIWDSKGLLPSLLHRPRNPR GQHSRPPAHVFGGKLE
19549	49917	A	19664	3	285	
19550	49918	A	19665	2	1556	RLEFPGRRFRSAPAPAGPAPPA APGMYSSPLCLTQDEFHPFIEAL LPHVRAFAYTWFNLQARKRKY FKKHEKRMSKDEERAVKDELL GEKPEVKQKWASRLAKLRKD IRPECREDFVLSITGKKAPGCVL SNPDQKGKMRRIDCLRQADKV WRDLVMVILFKGIPLESTDGE RLVKAAQCGHPVLCVQPHHIG VAVKELDLYLAYFVRERDAEQ SGSPRTGMGSDQEDSKPITLVT TDFQESFVTSGVFSVTELIQVSR TPVVTGTGPNFSLGELQGHLY DLNPASTGLRRTLPTSTSSGSKR HKSGSMEEDVDTPGGDYYS PSSPTSSSRNWTEDEMEGGISSPV KKTEMDSKSPFNPSPPQDSPRLSS FTQHHRPVIAVHSGIARSPHPSS ALHFPTTSILPQTASTYFPHTAIR YPPHLNPQDPLKDLVSLACDPA SQQPGPSWYLG*QRSSSLAPSPS SQESQGAAQPAPGPRFRWKIRV NKNTPADSQPGQKDKTHRRTH SGGKEKTKAE
19551	49919	A	19666	1	477	
19552	49920	A	19667	1	440	WTQDM/EGGISS/PVKKTEMAK SPFNPSPPQDSPRLSSFTQHHRP VIAVHSGIARSPHPSSALHFPTT SILP\QTASTYFPHTAIR\YPPHL NPQDPLK\DLVS\ACDPA\SSQQP GP/SYSPDTPANR\SFVGLGPR DPAGIYQAQSWYLG

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19553	49921	A	19668	2	1963	CPTGFEHGSPCARRTPTGRVSV TRCRRRAWGLRVSVCGPRAQ LQAEVQEEQGGGVLCVIVMP LTPGRTPLRPRGRALCNGRGGV WGGGSPRGLLPAQAPGDPEV CKFRFLDRCFPPYAGPSDLSLR GRAVGPPSASLALLTSRLSGLQ DEFHPFIEALLPHVRAFAYTWF NLQARKRKYFKKHEKRMSKDE ERAVKDELLGEKPEVKQKQWAS RLAKLRKDIRPECREDFVLSIT GKKAPGCVLSPNDQKGKMRRI D\CFRQADKVRDLVLMVILF KGIPLESTDGERLVKAAQCGHP VL/CALKPQH\IGVAVK/ENLDL YLAYFVRERDA*QSGSPRTGM GSDQEDSKPITLDTTDFQESFVT SGVFSVTELIQVSRTPVVTGTGP NFSLGELHAHLAYDLKPASAGL TRTLSSTFSSGNKRY\KAGSMEE YVDSTPWGDD*T*PSSPTSSRN WTEDMEGGISSPVKKTEMDKS PFNSPSPQDSPRLSSFTQHHRPVI AVHSGIARSPHPSSALHFPT\TSI LTPDGPSPTFPHTAIRYPHLP QDPLKDLVSLACDPA\SQQP/GP LNGSGQLKMPHCLSAQMLAP PPPG\LPRLALPPATKPATTSEG GATSPTSPSYSPDTPANRSFV GLGPRDPAGIYQAQSWYLG
19554	49922	A	19669	332	551	ESWLGRGHQPPPPGLFHSPKPS SGTAVLPAPWRPPSPGPAGDD ASPS*AGPGAGANPGA*QRS ASGEKGS
19555	49923	A	19670	1614	1673	
19556	49924	A	19671	72	227	EEFPMGHTA*WSCEKRATILQI QEW*IQQLAPCAWQSHRHST RAHESSHG
19557	49925	C	19672	1	604	
19558	49926	A	19673	653	889	VYPQTNWKQNTGTRVFIAALF TMAKGENK*PSMGEW\IKQM WSIHTMERHAAIKRIEAQVYAT M*MKLKSMALLERNQT

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19559	49927	A	19674	75	1619	EVSIQAQTMWTADEIAQLCYEH YGVIRLPKKGKPEPSHEWTLA AVVKIQSPA\DKACDTPDKPVQ VTKEVVSMGTGTCIGQSK/M* RKNGDIL\NDSHA\EVIA\RRSFQ RYLLHQLQLAATLKEDSIFVPG TQKGVWKLRRD\LINVFFSHT PCGDASIIPMLEFEDQPCCPVFR NWANNSSVEASSNLEAPGNER KCEDPDSPTKKMRLEPGTAA REVTNGAAHHQSFGKQKSGPIS PGIHSCDLTVEGLATVTRIAPGS AKVTDVYRTGAKCVPGEAGDS GKPGAAFHQVGLLRVKPGRG DRTRSMSCSDKMAR\WTVLGC QGALLMHLLEPIYLSA\VVIGK CPYSQEAMQ\RA\LIGRCQKV\S ALPKGFGVQELKILQSDLLFEQ SRSAVQAKRADSPGRLVPCG\A AISWSAVPEQPLDVTANGFPQG TTKKTIGSLQARSQISKVELFRS FQKLLSRIARDKWP\HSLRVQKL DTYQEYKEAASSYQEA\WSTLR KQVFGSWIRNPPDYHQFK
19560	49928	C	19675	45	140	
19561	49929	A	19676	3	354	AKIKTGYK\REHINLGCDMDFDI VGPSIRGALVLGYEGWLAGYQ MNFETAKSRVTQSNFAVGKYT DEFQLHTNVLLLNLERTCFLTG PTPTPPPLSWLP\GTTFSLTWAM TGRYTINSQ
19562	49930	A	19677	1	983	AARSAPLPGSAPCLRVAAPAVA ASEPAATSSEQKMAVPPTYADL GKSARDVFTKGYGFLIKLDLK TKSENGLEFTSSGSANTETTKV TGSLETKYRWTEYGLTFTEKW NTDNTLGT\EIT\VEDQL\ARGT* SLTFDSSFS\ANTGKKNAIKT GYKREHINLGCDMDFDIAGPSI RGALVLGYEGWLAGYQMNF* DCKIPE*PQSNFWQLANKT\DEF QASR*M*\ND\GTEFGGSYQKV NKK\LETA\NLPWT\AGNSNTR FEIAAKYQ\VDP\DACFSGKVNN SSLIGLGYT\QTLKPGIKL\TSLAL \LDGKN\VNA\GGHKL\GLGLEF QA

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19563	49931	A	19678	551	831	CHPSSHVLCAPASLSDHQWPPP ALCPSSRPQ/PCALPWSGTLSSR PQPCPTHPSGIEA*LCLPLVTQL G*LPL\APAQHLVPPCPSTCPTM LKLF
19564	49932	A	19679	47	980	VCQYCTARMADFGISAGQFVA VVWDKSSPVEALKGLVDKLQA LTGNEGRVSVENIKQLLQCLVP GSTT\LHSA\EILA\EIARILRPGG CLFLKEPVETAVDNNSKVKTAS KL\CSALTLS\GLVEEKELQREP LTPEEVQSVREHLGHESDNLLF VQITGKKPNFEVGSSMQLKLSI TKKSSPSVKPAVDPA AAKLWT LSANDMEDDSMDLIDSDELLDP EDLK KPDPA\LR\ASCGEGKK RKACKNCTCGLAEEL\EKEKSR EQMSSQPKSA\CGNCYRGAMPS GCASCPYLGMPAFKPGKEVLLS DSNLHDA
19565	49933	A	19680	29	1270	FPPFWPAVFQVCQYCTARMADF GISAGQFVAVVWDKSSPV\EAL KGL\VDKLQAF/TPGNEGRVSV ENIKAAVAILPTKNPSFGHYFV Q/CLVPGKAPLWWSA*DFWAG NPPGFRLPGWMFFFLKEPVETA VR*Q*AKWKTASKL\CSAL\TLS GLV/EKLKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPN FEVGSSRQLKLSITKKSSPSVKP AVDPAAAKL\WTL SANDMEDD SMCFCGCSLTHRWPLEHV VQV E/IMMDQPKRRTRVDT\FFTPRT PKFPSRSPASHFSFSIKQKT/TRP VSLIALNTL\QDLIDSDELLDPE DLKKPDPSLLRAASCGEGKKR KACKNCTCGLAEEL EKEKSRE QMSSQPKSACGNCYLGDAFRC ASCPYLGMPAFKPG\EKVLLSD
19566	49934	A	19681	3	405	QDFGTRALAAVQIKNGGSWWC PPVSLAAGVGPRPQLGRPYVRV APHGQV\GLSFAMWKTLT\FFR GASPGVGSQAMLKVA*SPHH WRARRDPEFIAYP\HLR\IRTKP FPWG\DGNHTQQYITPHVNPLS NLATED

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19567	49935	A	19682	2	450	VNKAGGLIYQLDSYAP/RAEAE KTFSYPLDLLKLHDERVLVAF GQRDGIRVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANY VSIRFGRPRLTSNEKLMLASMF HS\IKFVVLADP\RQAGIDSLLRK IYEIYSDFALKNPFYSLLEMP
19568	49936	A	19683	1	2034	
19569	49937	A	19684	202	453	RRLWRGSCPRCGGKARDGMG VRGR/YSEG/RERV*FGGPPRGS TWPLCGRWRRPARPSAPLRWS AMCPNTSDAAGACAAAVRCG
19570	49938	A	19685	269	326	
19571	49939	B	19686	98	562	
19572	49940	A	19687	1	2223	
19573	49941	A	19688	374	1107	IPVSEKQGSQWRFFSVYVVNKA GGLIYQLDSYAPTGLRLEKTF YPLDLAGSS*HDERVLVAFGQR GRHPEWGHAVLAINGMDVNG RYTADG\KEVLEYLG*PLLNYP VSIRF\GRPRLTSNE\KLMLGLP CFHSLFAIG\SQACLPGTREASR HLKILGRQDTFK\LHCYQTLTG IKFVVL\ADPR\QAG\DSLLRKI YEIYSDFAKNP\FYSLLEMP IRCELFDQNLKLALEVAEKAGTF
19574	49942	A	19689	119	288	ALHLNSSDVHQKLLPVQSLKKS *GRHRNNTCNQVRVA/SSTSRE FFTKLNKDNDILKP
19575	49943	A	19690	92	317	KSVGPVNFLPSGNMNEEDN*M H*HPFSSVTQAFRLRVLQSI\QR PL*TFNPGSSSLFSSISGQSNFPL GVAVLRP
19576	49944	A	19691	27	389	NFKTLKNN*IYK*MCSQEIKILS *KLIRFWYIEIHAFPPWAHGVVF CVAQEFCLPTVVLLPVPRLLIM KDMVRRQLQELRHTEQVQRAYA LNCGEGATVSYEIQIRVLREFGL ADAAAELLQN

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19577	49945	A	19692	313	2255	KTPQVQQPFPRQTGAAGAGAP SGRSGERAAGRAGPSGGSGGG QDSAHAGEAYRVRGILLRKTQ CLKDYFLTYTSSKVVPVKVPC RQVLTIDKCSLPRSSHRNARTV SNDFPRKSCSRERCTHCMRPPE GRRPPNGNMNSWKWPSGDESK WRRGEPGAVPEPEPLTGEERAA AAAVGGGWPGVLAPVRTAVL VAAAAEATAAVPAAAAAAGG ASGHCHNPVMQGRNLSHRFL PLHHSPYQFGTSSYSQQGYGCE SKLYSLDHGHEKPQDKKKRTS GLATLKKKFIKRRKSNRSADHA KQMRELLSGWDVRDVNALVE EYEGTSALKELSLQASLARPEA RTLQKDMADLYEYKYCTDVDL IFQETCFPVHRAILAAARCPFFK/I TAFFLTRVWGRDNNGHQYSW Y*YAHVFCFVTLPLYRRVWEW EDSRFQNVLDILVQLSEGIWEHQI PLM*DMRGTLI/DMCYYDVVL SFSSDSELVEAFGGNQNCLEDE LKAHKAVISARSPFFRNLLQRR RTGEEITDRTLRTPTRIILDESIIP KKYATVILHCMYTDVVDLSVL HCSPSVGSLSEVQALVAGKPN MTRAEEAMELYHIALFLEFNM LAQGSCWECIPPNDENQEQRS EGSRKWAPTREGSKGRSHASA
19578	49946	B	19693	4	3923	

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19579	49947	A	19694	1	2154	MEYYAAMKTKEIMSFALTWIE LEAIVLCELTHVLSELMQKQKT KYHMLSLGSPVPTFALWNFDV AQDFHHFIENARSSQCRGRPRM TGAGAGAPSGRSGERAAGRAG PSGGSGGGQDSAHAGEAYRVR GILLRKTFQCLKDYFLTYYTSS KVVPVKVPCRQVLTIDKCSLPR SSHRNARTVSNDFPRKSCSRER CTHCMRPPEGRPPNGNMNSW KWPSGDESKWRRGEPGAVPEP EPLTGEERAAAAAVGGGWPGV LAPVRTAVLVAAAAEATAAVP AAAAAAGGASGHCNHPVMQG RNLSHRFLLPLHHSPLYQFGTSS YSQQGYGCESKLYSLDHGHEK PQDKKKRTSGLATLKKKFIKRR KSNRSADHAKQMRELLSGWD VRDVNALVEEYEGTSALKELSL QASLARPEARTLQKDMADLYE YKYCTDVDLIFQETCFPVHRAI LAARCPFFK/ITAFFLTRVWGRD NNGHQYSWY*YAHVFCFVTLF LYRRVWKEDSRFQNVLDILVQL SEEFGTPNSLDVDMRGLFDYM CYYDVVLSFSSDSELVEAFGGN QNCLDEELKAHKAVISARSPFF RNLLQRRIRTGEEITDRTLRTPT RIILDESHPKKYATVILHCMYTD VVDLSVLHCSPSVGSLSEVQAL VAGKPNMTRAEEAMELYHIAL FLEFNMLAQGSCWECIPPNDIA
19580	49948	A	19695	1	163	
19581	49949	A	19696	1	207	
19582	49950	A	19697	1	579	PTRPGQAGSSSAMAQAQLAKR VL\SKLQSPSRARG/PCAGSPGG LQK/RGHARVTVKYDRPGSLQR RLDVEKWIDGPLEGLYRR\QEA D\MPMRSNIDELLE\LESEE\ERS RKIQGV/LRDS*KSCGKPVEDFI QELLAKLQGLHRQ\PGLRQSPS HDGSLSPQ\DRARTASPLTLA LFPGPERRPALLCVLSCI
19583	49951	A	19698	2	151	PPSPPLPPPLPPAPSLPLSLPSF DLPQPPVLDLTLGV/LF*LCRKKI SVS
19584	49952	A	19699	2	310	

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19585	49953	A	19700	1	688	LTWMTERVDFTALLPLEPPLPP GTLPPQSPPTPPDLEAMASLLKK ELEQMEDFFLDAPLLPPSPPPPL PPPPLPPAPSLPLSLPSFDLPQPP VLDTLDLLAIYCRNEAGQEVEV GMPPLPPPQQAPSFLPPAQPSR WGPLTHIPGQPTRGGPAKQKEE RPRNKSAALKVTPSGKRARG*S PWRAKSQGLEGTETASLKERA\ ESVEREIQYVKDALLIEVYKARS QRTRSC
19586	49954	A	19701	3	902	AAMATPARPGEAEDAAERPLQ DEPAAAAAGPGKGRFLVRICFQ GDEGACPTRDFVVGALILRSIG MDPSDIYAVIQPGSREFDVSFR SAEKLALFLRVYEEKREQEDC WETFGGAGGEASPA*RRSSSSS GTRRWWTWRTL*LGSSATATCW PC\GESDRQVLDLD/LGSTNARS SCARGRAGSGTCQGPSSWGPR G/CYSWYKGQPKTCFKCGSRTH MSGSCTQDRCFRCGEEGHLSPY CRKGIVCNLCGKRGHAFACQP KAVHNSVAAQLTGAVAGHLNTR LPARVNTQASLSLLKCPKLFF
19587	49955	A	19702	1359	1981	QSPFNDTLPGVPVSA*LHSLPPE HHPSKG*GVAKSPPVYPAGILL VCNNCAA YRKLLEAQTSPVRK WALRRQNEPLEVRLQRLERER TA\KKSRRDNETPEEREETDEQ RARRLQRDREAMRLKRANETP EKRQARLIREREAKRLKRRLEK MD\MLLRAQFGQDPSAMAAL AAEMNFFQLPVNGVELDSQLL GKMAFE\EQNSSSLH
19588	49956	A	19703	1	1875	

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19589	49957	A	19704	1	673	MSAKDGTCTLQDCMYKDVQK DWPGYSEGDDQQLLKRVLVRAH NTQRQRQNERSDTRPCQRAAP RRFSHGTRRGTLPLASPDRAA PRTGHCRTQRRLDRTGGGFPPL TGAWAMLADWIHEGTPSRGRS DNDEPSAGSVGGLRQHGPGR APKLTTTKVKALASPVLGQKIA ALCLGLTAQGLNIMDNPGSLAI HVHPDSVLTRKTNPCTHIWGFT QREPPLVANMSAKDGTCTLQD CMYKDVQKDWPGYSEGDDQQL LKRVLVRAHNTQRQRQNERSD TRPCQRAAPRRFSHGTRRGTL LASPDRAAPRTGHCRTQRRLD RTGGGFPPLTGAWAMLADWIH EGTPSRGRSDNDEPSAGSVGGL R/HAWPRTKSPKANNH*SESTG QPGAGPKNCSPVLGAYSPGPQH HGQPGLPGHTCP/SRTQC*PGRP TPAPTSGVSLRGNPLWWPT
19590	49958	A	19705	1088	2273	SPCLLTGGHLPADTSYRRAPAG IWQVPLWDEASQRKE*YQHQQ KKMSTQKPHPKDHNSSPAREQ/ SSMENKFHELTEVGFRKITSLE KNINDLMELKNTARELREAYTS IKSRIDQAKESISEIEDQLNEIKC EDKVREKRMKSNKQNFQEIWD YVKRPNLRLTGVPESDRENGTK LENTLQEIIQENFPNARQANIQ IQEIQRTAQRQSSSRATPIHIIVR FAKFEIKEKMLRAAREKDISM QKINKDIQDFNTVLDQVDLIHV YRTVHPKSSEYTFPSAPHHTYC KTGHIIGSKTLLSKCKRMEIITN TLDYSAIKLELRIKKLTQNHTT TWKVNTLLVNEY

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19591	49959	A	19706	318	873	AYELTPEPSPLPVFPVSADGSTT HPLADKRKASPVPEQHEEHLPA RPVTQRCLTYPPNITTASEFGP ATGFRARRSGRGSTVCCNPGCY PRARPEPEPRGTPPSVSAPRAAQ EAPARQR\AGPVLADTVP/SPAP RGKRDISPLFGNAHSASPKPSLD LWAPPP*AAGRGPQQA*DVTE DTQQQQWSAMAVGGTAKWM AALGRFLVTYVEVEGVKLQTF TVTTLTQSFKYSLSKYLQQQPL LSSRTIYPTFYLSLLRNLRAFK LNAAEAKPMSSPQNLVFLCFL SLQMAAPPRLQTKGKQAQCQS STKSTFQGRSLRGVSPTLSPTS QQPRNLDQQLASEQGEVGEAP LCAVIQGVIPVLGRSRSREEHPP VSALPGLHRKRQRDKEAGPVL ADTVPFRPHAGKGTFLRCLET TRRAPNPRWTFGLPLRKLQGA VAHSRPEIRTHSVPNRT
19592	49960	A	19707	1	690	DQDMTSSDIPVRLEGSLWLP*IF IGTFKAFDKHMNLILCDCDEF KIK*GVDCGGRLEDGNGLSG WAKQ*SLVSMTVEGPPPKDVS QSRKP/CWRRGGPTVSQALC*IL YPSWGSHAPGSCRTCWASPWG WRAIPTGEELGKGYHLLVAKIK DKGEGP*FSNPVPTWPWGSSPT YGPRSTPSR*GAHKETSAN**K MP\SWINDEI*PPMGMPPPGMRP PPPGMRGKCLQW

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
19593	49961	A	19708	1	1348	MVFWARPRTL LLLCAALGLGAL YTATPAPTVA KRQGQTAQALS SEGASPKPW LRGHIEPCQSY WEVRTEQSPGV SERKAAAPVR GLEIKLPSPWDK APEGGGGCGH SFSRLKCSFMPVL KRAVDLPAQ RSSPANGQTACSSGLAPVLPD WEIPPSKGRQTPYATGELRLAS DGCPSGTLKPEEGTDSNLCCSA SSAESNNININININKKDAHGKT PSKGPQHQRSKLDKSMKTRKN HHKNAENSKNLNASSPPKDHN SSTAKEQNWTE NEFDELTEVGF RRRVIANSSKLKEHVLTQCKEA ENFEKILEELLTRITSLEKNINDL MELKNTAQEHREAYTSINSQID QAEERISEIEDKLNEIKREDKIR GKRIKRNNK\SLQEIWDYVKRA NL*LI AVVPLNKITSPRTSETLST STNMSRSTLSCLLSSFSCPASCT ATSAALF
19594	49962	A	19709	718	1138	GGRAAEGSQPPVAEPRCSRGAR ALPLPDTSWRQPS/APQAAP*D VELPASPSAPFAVLLSKPRLSQN KPKSPFSVASP*HGDKRPQPSRH LI*IPHLSSRAPVHS/PLGWPSNR K/HKHLRPDTAHAPAEGPPLNY VRKQQKQS
19595	49963	A	19710	5	760	RAAACGGAAPGRKRCAPGRKR CGPRRKRS LGPPTLGQRPRQPS QQLRKPRRRRGSPGSLPKSSPLP SSTGKTGWSTRGRSVRPPVTTT RCCPPGHPCSRRAPSCTARAPLP PT*PPTTAPCRASPPAPRPPRRPR PPPGTRSPTS RGRRCRWTRSGAG TSRCSWRAGPGTAPAAAGARS RPGAPGVSA AVPCAAACSWMT SAPEVRAASSPGTPSRGSGGRS HPPCSRGLPTTG PATTAP EAPG CWSCRRRS
19596	49964	B	19711	180	300	
19597	49965	A	19712	249	700	RQDPVSGGQSCPASCPSLWAA ARVWL GQ\ PAPER*CPVCSSC PGPGAPEDTPEAGGCGCSGCRC CLRTQEPPAPLQPPHPPMAQTP REEVGRRGWTPGCPGTDPCLW GLRLLCPLWDPHRS GTRPWAQ VQRDTTETKAQRGLVRCQRGC
19598	49966	C	19713	273	485	

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19599	49967	A	19714	35	779	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTTFY/KDYGDKLNMESE KYKLDKESYPVFYLF RDGDFEN PVPYTGA VKVGAIQRWLKGQG VYLGMPGCLPVYDALAGEFIR ASGVEARQALLKQGQDNLSSV KETQKKWAEQYLMKGKILDQ GEDFPASEMTRIARLIEKNKRSC KKA VCD FPGFGGREGRVNLL AVSPLWNIRG
19600	49968	A	19715	2	253	
19601	49969	A	19716	494	1443	LAVPRPAYGPRSPGSLLRIPVPG LHLLNLNVWSRGSAALHTKG ALPLDVTTFYKVIPKSKFVLVK FDTQYPYGEKQDEFKRFAENSA SS\DDLL\VAEVGISDYGDKLN M\ELS\EKYKL\DKESYPVFYLF RDGDFEEPSSHYTGGS*RLGAIQ RWLKGKG VYLG DGLELVCT V*LTPLAGEFIRASGVEARQAP LEAGA QDNLSK CERRLRKKW AEQYLMKGKILD\QGEDFP\AS EMTTESLGLIEKN\KMSDGKKE EL\QKSLN\ILTALPRRKGA EKR GAVNKA VCD FPRVWWEYGRG ELTLA VSPLWNIRG
19602	49970	A	19717	286	332	HHHHHPHYHHHHHPHYHHHH HPQYHH\HHPHYDHHRHRQGD HHGQLQYDDDHQPQCHQHDH LRCEHQHYIQ*WLINNLRASRY KPLLNIMLVFAAEMIVLVALGL M V V V V L E L T V V V A L T M T V V V I VRMMGGDIGDDGGGGSGDDG GGGSGDDGGGV MWQFFDSMS KNDSIIPTTTTTIPTTTTTITIRA EQFTILT WKPVVSSQKNTSSFR
19603	49971	C	19718	1	546	
19604	49972	A	19719	1	90	
19605	49973	B	19720	217	951	
19606	49974	B	19721	67	1708	
19607	49975	B	19722	218	3267	

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19608	49976	A	19723	1	634	LGRLSFPRPEQPDPGHRAHPSSP PRRRPHARGRRGPRRHH/YHD TGANRAPEVRPPCPES/SPVGVA AFEPNGLRGQQPSRSPGAPKG L*PTPPSASSSPKPREPSALGRPC CRCEESRFLEHRNSNPRVKDSR QARGRHAEFHGRTGVFERRRS RDHLPHTFPASVRWEKLSWCA RKNGLSGLRLCHGSQHFGYSN RKVGTESLNQVWE
19609	49977	A	19724	3	1090	
19610	49978	A	19725	1	609	
19611	49979	A	19726	23	636	FSYLPPGPSHGTWGLWELQFK MRFGVCRHLMEDSMDMDVSP LR/PQNYLFSCELKADKDDHFK VDNDENEHQLSLRTPTVSLGVF EITPPVLLWLKCGSGPVHISGQ HLVAVEEDAEESEDEEEDVKLL RISGKTKTFMATNGKEYKHYKI SSEKSLDNKYKTRTPGFQAFGF EDLHPWPLGSQAFYLSLRVTPP VFLVLRLLDFD
19612	49980	A	19727	1	830	MEDSMDMDMSPLRPQNYLFGC ELKADKDYHFKVDNDENEHQL SLRTVSLGAGAKDELHIVEAEA MNYEGSPIKVTLATLKMSVQPT VSLGGFEITPPVVLRLKCGSGPV HISGQHLVAVEEDAEESEDEE DVNRVLFMKP/KRQGPQAYVR GFGVQLEIGSH*DPEQQF*RDSA QPSLATPSTPHLQALLCLSGQV LRLPLWGQRL*GLQGLLPPQHP EEHGVHVSPGQELHHQQGDPE PLPVLPTAEVL*SGHVQGVCEK RPKQEEEGGAQARVL
19613	49981	A	19728	1	684	
19614	49982	A	19729	3	535	DSVLRGCSLEQRSFISVRLLSYL SACRHPMEDSMDMDMSPLRPQ NYLFGCELKADKDYHFKVDND ENEHQLSLRTVSLGAGAKDEL HIVEAEAMNYEGSPIKVTLATL KMSVQPTVSLGGFEITPPVVLRL LKCGSGPVHISGQHLVVYRRK HQELQAMQMDCRALSTS*ASS APRPS
19615	49983	B	19730	1	2268	
19616	49984	A	19731	198	472	AHDIGCPEVSPLVLEVARDEGP AHRPRFSH*SSHCSHWGTSQRA APPPCHPCIQTTW/PGAVTGLG G*PKTRSGPGKDRSSGAASSFP GGRV

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19617	49985	A	19732	92	2049	LTALPPAVSPGGHSSSSSRRTIS GIT*ELQR/LLQAVVPGPWQED VADAEECAGRCGPLMDCRAFH YNVSSHGCQLLPWTQHSPHTR LRHSGRCDLFQEKGEWGYMPT LRNGLEENFCRNPDPGDPGGPW CHTTDPAVRFQSCGIKSCRVA CVWCNGEEYRGAVDRTESGRE CQRWDLQHPHQHPFEPGKFLD QGLDDNYCRNPDGSERPWCYT TDPQIEREFCDLPRCGSEAQPRQ EATSVSCFRGKGEGYRGNTT TAGVPCQRWDAQIPHQHRFTPE KYACKDLRENFCRNPDGSEAP WCFTLRPGMRVGFYQIRRCT DDVRPQDCYHGAGEQYRGTVS KTRKGVQCQR/WSLE/TG*DYP ATTSLPLPRFTFTSEPHAQLEE NFC/RDPDGDSHGFWCYTMDP RTPFDYCALRRCDQVQFEKCG KRVDRLDQRCSKLRVAGGHPG NSPWTVSLRNWQGGHFCGGSL VKEQWILTARQCFSSCHMPLTG YEVWLGTLFQNPQHGEPLQR VPVAKMLCGPSGSQLVLLKLE RYVDNLGGWTKCEIAGRGETK GTGNDTVLNVALLNVISNQEC NIKHRGHVRESEMCTEGLLAPV GACEGDYGGPLACFTHNCWVL KGIRIPNRVCARSRWPVFTRV